Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

PRICE CHANGES AND THE BUSINESS OUTLOOK

Improvement in business during February did not take as much of a stride forward as it did in January, but practically all the gain that was recorded the first month of the year was sustained during the second, and in some lines of trade was even exceeded. It is regrettable, but true, that most of the business in the metal line goes to make up munitions of war or the like.

Construction work promises to open more actively this year. Highway work will go forward actively, and a great deal of municipal improvement already projected will be put through.

Railroad work is not active. Some of the stronger lines are making improvements, but a great many railroad companies are still in a weak position financially and are unable to make any special headway in the matter of financiering.

The financial position is peculiar. Money is plentiful; credit is available for temporary needs; but capital to be put into permanent construction is extremely difficult to obtain. There is so much floating indebtedness that banks and other financial institutions, as well an individuals, are insisting on the funding or payment of temporary obligations before any new projects can be put forward.

The iron trade shows a slight improvement, chiefly in the matter of output, and some fair orders have been taken for rails. Structural business is extremely light, though pipe and sheets are in good, active demand.

The phenomenal rise of spelter—the price advanced to nearly 10c. at the end of February, compared with a quotation of slightly over 5c. in August—is upsetting many established traditions of trade. For example, galvanized sheets have advanced out of all proportion to the increase in the cost of black sheets, due entirely to the cost of spelter. Galvanized pipe, too, is much dearer in proportion. Brass sheets are very much higher, and all kinds of brass goods are bound to feel the increase in the cost of spelter. The high price of spelter is an entirely legitimate one, as most of the spelter furnished to Europe has come from Germany, and this supply is now entirely cut off.

The wonderful exports of products of American farms and American manufacturing establishments are turning the balance of trade strongly in our favor, and where it was with extreme difficulty that foreign government payments were financed in August, now that exchange has moved so strongly against foreign countries, gold is likely to come here in quantity unless (which is most probable) large credits are established. There is a prospect that the large agricultural shipments will be cut off by supplies from eastern Europe, but the American farmer is endeavoring to put in the largest crop of grain that he has ever done, and with good weather this should make for better business all over the country.

The Court of Appeals of the State of New York, late in February, declared the Alien Labor Clause constitutional. This means that much of the subway work in New York must halt at least temporarily, it being generally felt that no further penalty will be required of contractors. It is a question whether this decision will be carried to the United States Supreme Court, but it is certainly to the interests of contractors to secure definite information on so important a subject.

Municipal bond sales during February totaled $38,127,000 compared with $34,606,894 in the corresponding month last year.

Prices of portland cement have declined 15c. per bbl. and now are down to the lowest figure in years, especially in the New York market.

LABOR

A great many employers are likely to be disappointed if they think labor is going to be phenomenally cheap this year. Such will not be the case. The shrewdest judges of the situation believe that the prevailing rates of labor are here to stay, and there are more likely to be increases than decreases. Of course, on the New York subways, where a number of alien laborers were thrown out on account of the Labor Law, there is a great rush of unemployed to do the work. These, however, cannot stand such work. The steel mills are already taking account of conditions, and the opinion is voiced that should activities be resumed on the old accustomed scale, it will be extremely difficult to secure enough foreign laborers to do the work. In the winter season there was not the unemployment such as was generally expected.

CEMENT, LIME AND BRICK

Portland Cement—The New York market is almost nonexistent. Some of the largest dealers here are filling every available part of their yards with cement, which nets them $1.22. There is not much danger in buying as they do, for the bags will undoubtedly be paid for, as the sellers are financially strong. Some of the weaker companies have made contracts for future delivery at these prices. The quotation means a price of 58 to 60c. in bulk at the mill. These are the lowest prices recorded in a dozen years. In the West prices are higher in spite of the fear that a number of independent mills may be gathered into a compact organization. Prices, which are for barrels of cement less the charge of 40c. made for bags, are as follows:

Chicago	$1.11	Boston	$1.46
Detroit	1.19	Cleveland	1.16
Jersey City	0.74	Duluth	1.32
New York	0.82	Minneapolis	1.30
St. Paul	1.30	Pittsburgh	1.00

Brick—Storage room at the yards of material men is especially valuable just now for the storage of cement, and brick prices are nominal at $5 to $5.50. There seems little likelihood that any high prices will be current this year.

Crushed Stone—Some contracts have been made for future delivery at slight concessions from the ruling price, but for the most part 1½-in. stone is selling at 80 to 85c. and ¾-in. stone at 90 to 95c. These quotations are per cu.yd. in large loads of 500 cu.yd. delivered alongside of dock, New York.

Gravel—The prices of gravel are unchanged at 85c., but subway gravel is held at $1.15 by the largest distributor, while some sales have been made at $1.10.

Lime—Little business is current. For what business is doing, prices remain unchanged at 97c. per bbl. for state common, 200 lb. net; $1.37 for 30 lb. barrel; $1.55 for 300 lb. finishing; $1.10 for 200 lb. finishing; and $1.72 for 350 lb.

IRON AND STEEL

Pig Iron—Cast iron pipe foundries in the Philadelphia district have purchased about 40,000 tons of pig iron and 40,000 tons of Southern iron have been ordered by buyers in England. The market conditions at various points show improvement especially at Cincinnati and Chicago. Throughout the Central West there is an increasing disposition to sound the market for requirements for the last half of the year and sellers expect large sales could be made at present prices. As furnaces are not willing to sell at those prices negotiations have not taken definite form.

Inquiries for export are being broached and the fact that freight rates may be more favorable increases the probability of sales in addition to those already reported.

Domestic business continues light in nearly all sections. The principal recent sale reported from Pittsburgh was 3500 tons of cold blast charcoal iron. In the Ohio Valley there are several inquiries for both malleable and gray foundry iron amounting to about 4000 tons for consumption in Ohio and Indiana. Prices remain about stationary. Quotations for pig iron in lots of 100 tons or over at the points named are as follows: Cincinnati, Southern Foundry No. 2, $13@13.25; Northern Foundry No. 2, $14@14.50; Northern Foundry No. 3, $13.50@14. In New York iron is quoted as follows: No. 2-X Northern Foundry, $14.25@14.70; No. 2 plain Northern Foundry, $14@14.50; No. 2 Southern Foundry, delivered tidewater, $14@14.25. In Birmingham, Southern Foundry No. 2 is $9.50@10. In Chicago, Southern Foundry No. 2 is $13@13.75. In Pittsburgh, bessemer iron is $14.55 and basic $13.45, including the 95c. freight rate from the valley to the Pittsburgh district.

Steel Rails—While business was not so large as during the first month of the year, and it is evident that the replacement this year will be small, and perhaps as limited as during 1913. It is known, that the railroads have been allowing their equipment and roadbeds to seriously deteriorate, probably more so in the case of equipment than in roadbeds. The railroads have not kept pace with the growth of the country in the last five years, nor have they kept pace with the growth of business in the last decade, but it is evident that some day business will have to come in on a much larger scale. There are foreign inquiries in the market, but the high freight rates at present preclude the closing of any of these contracts. Quotations for standard lots of 1000 tons or over are unchanged as follows: Standard sections of bessemer, $28; open-hearth, $30, f.o.b. Pittsburgh, per net ton; girder rails in 30-ft. lengths are $36.40 per gross ton, and in 60-ft. lengths, $38.40, both f.o.b. New York. Other quotations, f.o.b. Pittsburgh, for large lots, the price being given in cents per lb., are as follows: Standard sections, 1.25c.; 25 to 35 lb., 1.15c.; 15 to 20 lb., 1.20c.; 12 to 14 lb., 1.25c.; 8 to 12 lb., 1.30c. Relaying rails, New York, are $19, and Pittsburgh and Chicago are quoted $23 to $24.

Structural Shapes—Business is not at all active, although a few structures have been advanced from the purely prospective stages. Most of these are for New York. There is a new building at 8th Ave. and 33d St. which will require 8000 tons, and a Broadway structure near 42d St. will call for 2000 tons. A bridge for export will amount to only 500 tons, but it is important. A pier at 47th St. calls for 300 tons. In general, construction work is light, and the railroads are not doing the bridge work that was expected. Prices are unchanged, as follows: I-beams 3 to 15 in., channels 3 to 15 in., angles, 3 to 6 in., T's 2 in. and over, 1.15c. Pittsburgh. Other quotations include I-beams over 18 in., H-beams over 18 in., channels over 15 in., and angles over 4 in., 1.30c.; T's 1.25c.; deck beams and bulb angles, 1.50c.; handrail T's, 1.95c. Cutting to specified lengths is charged at the following rates: Under 3 ft. to 2 ft. inclusive, 25c. per 100 lb.; 2 ft. to 1 ft. inclusive, 50c.; less than 1 ft., $1.55. No charge is made for cutting to lengths over 3 ft. In Chicago, the base price is 1.34c.; in New York, 1.26 to 1.31c.; in Philadelphia, 1.25 to 1.30c.; in San Francisco, 2. to 2.05c.

Cast-Iron Pipe—Business in the East is not so active as it was a month ago. It seems that most of the business that was going to be placed at low prices has already been let, and consumers are in an easy position; having contracted for most of the material they will use this year, they are disposed to wait and see if still lower prices may not be made.

No especially large orders have been placed, although the Hawthorne, N. J., job went to the R. D. Wood Co. In the West it seems that business is more active than for some time. The following quotations are made on cast-iron pipe in dollars per net ton at the points named: Birmingham, Ala., 4-in. and larger, $19.50; New York, N. Y., 6-in., $20 to $20.50; Chicago, 4-in., $26, 6- to 12-in., $24, over 12-in., $23. Cleveland, 3- to 20-in., $21.50, 24- to 48-in., $21.

Gas pipe is held $1 per ton higher in all markets.

Plates—Activity in the shipbuilding line is responsible for fairly active operations at the plate mills. Contracts have recently been taken for more boats to be built at the Atlantic Shipyard, and there are now eighteen freight and passenger boats which have been contracted for since Dec. 1. Some of these boats are barges, and there is one ferryboat, but it looks as though the shipbuilding yards would have more business in the next few years than before in a number of years. Plate mills in the Pittsburgh district are operating at about 60% of capacity, although some mills are operating as high as 93%. Prices for plates for immediate delivery are higher at 1.15c. Pittsburgh. This includes all sizes above ¼-in. In Philadelphia plates are 1.30 to 1.35c., in New York 1.31 to 1.36c., and in Chicago 1.30 to 1.34c.

Pipe—Discounts for pipe were changed, bringing about higher net prices for all sizes of pipe below 7-in. The increase in black pipe was about 5%, but in galvanized it amounted to fully 10%, and it is doubtful if these quotations will hold for any length of time, considering the abnormal spelter market. As it is, prices are unusually low, in consideration of the cost of raw materials. Discounts, revised about Feb. 20, for large orders amounting to carloads and more are as follows:

	Black	Galvanized
¾- to 2-in. steel, butt welded	80%	69½%
2½- to 6-in. steel, lap welded	79%	68½%
7- to 12-in. steel, lap welded	77%	66½%

At these discounts, the net prices of pipe per foot, in large lots, at Pittsburgh are as follows:

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
¾-in.	2.20	3.50	5-in.	31.00	47.00
1-in.	3.40	5.20	6-in.	40.40	61.00
1¼-in.	4.60	7.00	7-in.	55.00	80.00
1½-in.	5.50	8.40	8-in.	57.50	84.00
2-in.	7.40	11.15	9-in.	79.50	$1.16
2½-in.	12.20	18.60	10-in.	95.00	$1.38
3-in	16.10	24.20	11-in.	$1.06	$1.55
4-in.	22.90	34.50	12-in.	$1.17	$1.70

Sheets—Prices of galvanized sheets have advanced more rapidly than ever before. In the aggregate this amounts to $8 per ton, and is due entirely to the phenomenal advance in spelter. No. 28 galvanized sheets at the mill now sell at $3.40 per 100 lb., and should the mills be obliged to purchase spelter in the open market it is doubtful if they can come out whole on this quotation. The demand is large, but the trade fears further advance, as stocks at the mills and in the hands of distributors have been unusually low.

The following quotations are for large lots of sheets in Pittsburgh, and small lots from store, New York.

	Cents per Pound—Large lots Pittsburgh Black	Large lots Pittsburgh Galv.	Warehouse delivery New York Black	Warehouse delivery New York Galv
No. 10	1.55	2.40	....	....
No. 12	1.55	2.50	....	....
No. 14	1.60	2.50	....	....
No. 16	1.65	2.60	2.35	3.25
Nos. 18 and 20	1.70	2.80	2.40	3.40
Nos. 22 and 24	1.75	2.90	2.45	3.55
No. 26	1.80	3.05	2.50	3.70
No. 27	1.85	3.25	2.55	3.85
No. 28	1.90	3.40	2.60	4.00

Steel Shapes—Prices are steady and without change; there is more of a demand due to higher prices at the mill but it is still far below normal. From jobbers' warehouse New York, prices are as follows:

	Cents Per Pound
Refined iron:	
1 to 1⅞ in., round and square	1.85
1½ to 4 in. x ⅜ to 1 in	1.85
1½ to 4 in. x ¼ to ⅝ in	2.05
Norway bars	3.20
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	1.85
1 to 6 in. x ⅜ to 1 in	1.85
1 to 6 in. x ¼ and ⅛	2.00
Rods—⅝ and ½ in	1.95
Bands—1½ to 6x⅛ in. to No. 8	2.15
Beams and channels—3 to 15 in	1.90
Angles:	
3 in. x ¼ in. and larger	1.90
3 in. x ⅛ in. and ⅛ in.	2.35
1½ to 2¾ in. x ⅛ in. and thicker	2.00
1½ to 2½ in. x ⅛ in.	2.10
1 to 1¼ in. x ⅛ in.	2.10
1 to 1¼ in. x ⅛ in.	2.15
Tees:	
1½ to 2½x¼ in.	2.05
1½ to 2½x⅛ in.	2.15
3 in. and larger	1.95

Steel Sheet Piling—Prices are without change at 1.55c. to 1.60c. per lb. f.o.b. Pittsburgh.

Freight Rates—The freight rates on finished steel products from the Pittsburgh district, including plates, structural shapes, merchant steel and iron bar, pipe fittings, plain and galvarized wire, nails, rivets spikes, and bolts, black sheets (except planished) chains, etc., are as follows in cents per hundred pounds: Albany, 16; Buffalo, 11; Boston, 18; Baltimore, 14½; Canandaigua, 13½; Cleveland, 10; Columbus, 12; Cincinnati, 15; Chicago, 18; Denver, Colo., 85½; Harrisburg, 14½; Louisville, 18; New York, 16; Norfolk, 20; Philadelphia, 15; Rochester, 11½; Richmond, 20; Scranton, 15; St. Louis, 23; Washington, 14½.

Old Materials—The prices of scrap have advanced slightly, but the chief interest in the market lies in the fact that it is being closely watched, and while sales are more numerous they are not meant to make any great difference in price, but they show that the scrap market has apparently touched bottom. There have been several small purchases, but enough to indicate the trend of events. Heavy melting steel scrap, which is perhaps the index to the steel scrap, is higher in New York at 25c.; in Chicago the outside price is slightly higher; while in Pittsburgh the old minimum of $11 has given way, and there is nothing under $11.75. Such gains as this are not to be found throughout the market, but this represents conditions in the trade. A feature of interest in addition to this is the reported negotiations for a 5000- to 10,000-ton contract for Italy. It is probable that Italy will have to buy quite a little scrap from this county. The prices of old materials in New York are as follows:

	Per Gross Ton
Heavy-melting steel scrap	$8.25 to $8.50
Pipes and flues	8.00 to 8.25
No. 1 railroad wrought	9.50 to 10.00
Stove plate	9.00 to 9.25
No. 1 machinery cast	11.00 to 11.50
Wrought turnings	5.75 to 6.25

In Chicago the market is steady with not much change. The following prices are quoted.

	Per Gross Ton
Heavy-melting steel scrap	$9.75 to $10.25
	Per Net Ton
No. 1 railroad wrought	$9.00 to $9.50
No. 2 railroad wrought	8.50 to 9.00
No. 1 cast scrap	9.00 to 9.25
Pipes and flues	7.00 to 7.50
Agricultural malleable	7.50 to 7.75
Railroad malleable	7.75 to 8.25

The Pittsburgh market shows little change except in foundry cast, which is offered at 50c. a ton less, and a drop in the price of heavy melting steel scrap.

	Per Gross Ton
Heavy-melting steel scrap	$11.75
Re-rolling rails	12.00
No. 1 foundry cast	$11.75 to 12.00
Old car wheels	11.50 to 12.00
Machine shop turnings	7.75 to 8.00
Railroad malleable	9.75 to 10.00

Wire Rope—The revised quotations of a month ago did not stimulate any large business but manufacturers report a little better inquiry. Discounts are unchanged at 47 and 5% from list for galvanized, and 55 and 5% for bright. At these discounts the net price of wire rope at the mill is as follows:

Diameter in Inches	Price per Foot—Cast Steel	Crucible Steel	Plow Steel
2½	$0.75	$0.90	$1.07
2¼	0.61	0.73	0.86
2	0.47	0.57	0.67
1¾	0.39	0.49	0.58
1½	0.28	0.34	0.40
1¼	0.20	0.24	0.27
1	0.13	0.15	0.18
¾	0.08	0.09	0.11
⅝	0.06	0.07	0.08

Chain—Prices are steady and without change, as follows: These prices are per 100 lb., f.o.b., Pittsburgh:

⅜ in.	$7.50	½ and ⅝ in.	$3.00
¼ in.	4.95	⅝ and ¾ in.	2.90
⅜ in.	3.95	¾ and ⅞ in.	2.80
⅝ in.	3.40	⅞ and 1 in.	2.70
½ in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER 100 LB.

	For BB	For BBB
⅜-in. and ¼-in.	$1.50	$2.00
⅛-in. and larger	1.25	1.75

Freight Rates via Panama—The ocean freight market is very uncertain. It is difficult to secure enough vessels to carry the cargoes offered. An advance of 5c. per 100 lb. is now demanded for shipments from New York and Philadelphia bringing the quotation to 30c. For large lots of steel, such as shapes, reinforcing bars, plates wire and similar products, the rates to Pacific Coast points are as follows: From Bethlehem, 37.5c.; Chicago, 55c.; Cleveland, 44c.; Coatesville, 40c.; Johnstown, 39.5c.; New York, 30c.; Niles, 43c.; Philadelphia, 30c.; Pittsburgh, 46c.; Steubenville, 41c.; Wheeling, 41c.; Youngstown, 43c.

Coke—The market is extremely dull and prices are lower than a month ago. Production is larger, the output being 250,000 tons weekly. Prompt shipment of furnace coke can be had at $1.55 to $1.65 and contracts are made at $1.65 to $1.75. For foundry coke $2 to $2.50 is paid for prompt and $2.25 to $2.50 for shipments. All these prices are per net ton.

Wire—Business is fair but there is no especial snap. Some believe the difference between plain wire and galvanized should be more than 40c. per 100 lb. Prices are steady. Plain wire to retailers Pittsburgh is quoted at $1.40; galvanized wire to retailers Pittsburgh, $1.80 to $1.85; painted barbed wire, $1.55 to $1.60, and galvanized barbed wire $1.95 to $2. Polished staples are $1.50 to $1.55, and galvanized staples

$1.90 to 1.95. Wire nails are quoted at $1.63 Pittsburgh. All of these quotations are per 100 lb. in large lots.

REINFORCING MATERIALS

Bars, Concrete Reinforcing—The advance of $1 per ton went in effect Mar. 1 as scheduled; but there was no rush to place contracts. For April delivery a quotation of 1.15c. is promised. Prices are as follows:

Size	Cents per Pound: Mill Shipments Pittsburgh	Cents per Pound: *Warehouse Pittsburgh	Cents per Pound: Delivered from *Warehouse New York
¾-in and larger...	1.15	1.50	1.95 to 2.00
⅝-in.	1.20	1.65	2.00 to 2.05
½-in.	1.35	1.80	2.15 to 2.20
⅜-in.	1.45	1.90	2.25 to 2.30
¼-in.	1.75	2.20	2.60 to 2.65

*Bars from warehouse are cut to desired length without extra charge.

Triangle Mesh—Business is quiet but the tonnage booked during February was equal to that booked in the corresponding month in other years. Prices are without change as follows:

PRICE PER 100 SQ.FT.

Style No.	Cross Sec. Area per Ft. Width	Plain Material: Carload Lots	Plain Material: Less Than Car Lots and Over 10,000 Sq.Ft.	Galvanized: Carload Lots	Galvanized: Less Than Car Lots and Over 10,000 Sq.Ft.
†4	$0.102	$1.00	$1.23	$1.12	$1.34
5	0.077	0.80	0.97	0.89	1.00
6	0.058	0.63	0.77	0.71	0.84
†7	0.041	0.49	0.60	0.55	0.66
†23	0.170	1.69	2.05	1.88	2.24
24	0.142	1.46	1.77	1.62	1.93
25	0.124	1.29	1.57	1.43	1.71
†26	0.110	1.17	1.42	1.30	1.55
†27	0.085	0.96	1.17	1.07	1.28
28	0.066	0.80	0.97	0.89	1.06
29	0.049	0.66	0.80	0.73	0.87
31	0.261	2.49	3.02	2.76	3.29
32	0.225	2.16	2.62	2.40	2.86
33	0.196	1.93	2.34	2.14	2.55
34	0.146	1.48	1.80	1.64	1.96
35	0.109	1.117	1.42	1.30	1.55
36	0.075	0.87	1.05	0.97	1.15
38	0.380	3.55	4.30	3.93	4.68
†39	0.325	3.05	3.70	3.38	4.03
40	0.283	2.68	3.25	2.97	3.54
41	0.208	2.05	2.48	2.27	2.70
42	0.151	1.55	1.88	1.72	2.05
†43	0.101	1.10	1.34	1.23	1.46

†This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths in rolls are 150, 250, 300 and 600 ft.

METALS

Copper—The market in copper, while quiet, has maintained the high prices reported a month ago, electrolytic being held at 14¾c. and Lake at 15¼c. per pound. Orders for export appear to have fallen off but the continuance of the war will no doubt bring larger demands from abroad. Production is being maintained at about 50% of capacity. In some quarters the opinion is expressed that any considerable movement in exports will have the effect of increasing the output at the mines. The trade realizes that it required a large amount of buying to carry the price from 11½c. to nearly 15c. in about ninety days and consumers would like to know how great the inroad into refiners' stocks has been as the result of the manufacture of war material to say nothing of the use of metal in the arts. The general condition of the trade appears to be improving and sentiment is hopeful for a continuance of a lively market for some time to come with prices around the level recently attained.

Tin—A temporary scarcity of spot tin together with a fair demand for small lots had the effect of advancing prices to 38c. Tin from the steamer "City of Bristol" was available on March 1 which relieved the scarcity for quick shipment tin in the New York market. There is also a good demand for March and April positions. March being quoted at 37¼c. and April at 38c. Arrivals at ports of the United States during February aggregated 3110 tons and the cargoes afloat amounted to 2510 tons.

Lead—The market for lead was firm but quiet, with prices generally higher. Spot is held at 3.90c. New York and 3.80c. East St. Louis.

Spelter—Prices for spelter are much higher owing to a genuine shortage in the supply. Spot is quoted at 10¼c. New York and 10c. East St. Louis.

Antimony—The advance in all grades of antimony reported last has been maintained. Ordinary brands are quoted at 18@19½c. for spot while Cookson's is quoted at 22c. and Hallet's 20c.

Old Metals—The market for old metals has been quiet; the demand being on a small scale. Dealers buying quotations are only approximate.

	Cents
Copper, heavy and crucible	13.10
Copper, heavy and wire	12.75
Copper, light and bottoms	11.50
Brass, heavy	9.25
Brass, light	7.00
Heavy machine composition	10.50
Composition turnings	9.00
Lead, heavy	3.75
Zinc, scrap	5.00

Miscellaneous Metals—The prices of various metals from jobbers' warehouse, New York, are as follows:

	Per Pound
Bismuth	$3.75 to $4.00
Brass tubes, iron-pipe sizes:	
½ in.	19.00c.
¾ in. to 3 in.	18.00c.
3½ in.	18.00c.
4 in.	19.00c.
Brass rods	17.00c.
Brass sheets	17.25c.
Solder	24.00c.
Copper tubes	21.50c.
Zinc sheets	13.00 to 13.50c.
Copper sheets	19.75c.
Pig tin (five-ton lots, cash)	40.00c.

CLAY PRODUCTS

Sewer Pipe—Only a very slight improvement has been shown in the market during the past month. Discounts remain the same, as follows: 3 to 24-in., 78%; 27 to 30-in., 70%; 33- to 36-in., 55%. At these discounts, net prices are as follows:

PRICE OF SEWER PIPE PER FOOT

Size		Size	
3-in	$0.055	18-in.	$0.418
4-in.	0.055	20-in.	0.495
5-in.	0.088	22-in.	0.66
6-in.	0.088	24-in.	0.715
8-in.	0.1265	27-in.	1.35
10-in.	0.184	30-in.	1.65
12-in.	0.22	33-in.	2.20
15-in.	0.297	36-in.	2.45
18-in.	0.418		

Flue Lining—Business has been very dull during the month and the market remains unchanged, the discounts being 80% from list. At this rate, prices are as follows:

FLUE LINING PRICE PER FOOT

Size	Weight in Lb.	Price per Ft.	Size	Weight in Lb.	Price per Ft.
4½x8½-in	14	$0.07	8½x18-in	45	$0.18
4½x13-in	20	0.09	13x13-in	45	0.17
7½x7½-in	15	0.08	13x18-in	57	0.24
8½x8½-in	18	0.09	18x18-in	75	0.40
8½x13-in	28	0.13			

MISCELLANEOUS

Lumber—The market is much confused, but prices are only slightly lower than in the summer. This is in spite of a marked falling off in the domestic demand and no corresponding increase in the export situation. The whole reason may be summed up in the inability to secure low freight rates. Coastwise rates have advanced, and the withdrawal of a number of steam vessels for service to Europe has put correspondingly heavy demands on sailing vessels. Shipments through the Panama Canal, from which great things were expected, have, it is true, fully materialized, and 40,000,000 ft. of lumber has come from the Pacific Coast to the New York market by that route. Recently some of the leading shippers have refused to make any further contracts for lumber through the Canal. This is because shipping may be more profitably employed in doing other work. Great Britain has been a buyer of hardwood from the South, owing to the activity in its shipbuilding yards, and there seems to be no doubt that owing to the great destruction of merchant shipping, also fishing vessels, there will be a widespread demand for lumber some day. At present, however, there is absolutely no way of foretelling when conditions will improve. Prices show but little change in New York. Frames are quoted at $24, and hemlock boards at $20 to $22, in yards; spruce boards at $20 to $23. Clapboards are quoted at $52 to $54 for spruce.

Hardwood—The prices of hardwood show little change, the demand being exceedingly light. Ash boards are quoted at $60 to $64; bass wood $42 to $45; birch $54 to $56; maple boards $38 to $42; quartered oak $85 to $90; plain oak $55 to $60.

Lath—Quotations for lath are steady at $4 to $4.25 for 1⅝ in. and $3.65 to $3.75 for 1½ in.

Draft Animals—The havoc the Boer war created in the mule market in America is being duplicated by the large purchases of horses by representatives of Great Britain, France, and Italy. Although there were in the United States about 22,000,000 horses the first of the year, the purchases are variously estimated at from 100,000 to 500,000. However, the official figures of the Department of Commerce show exports numbering 30,000 for December. For the year 1914 the exports were 92,923 head compared with 29,352 in the previous year. Prices have advanced rapidly, as the result of these small exports even, and although these horses are not such as contractors use, they will make a difference in the cost of all kinds of horses. The buyers are desirous of obtaining rather light horses, weighing from 1000 to 1150 lb., and 15 to 15½ hands high. When the purchasing first began, there was paid $155 to $165, delivered at points of inspection, usually county seats, but this price has advanced, and cavalry horses are now bringing $175 to $180. A larger horse, used for artillery, must weigh to meet specifications 1200 to 1400 lb., and these are paid for at $185 to $195.

Lighterage Limits—The free delivery or "Lighterage Limits" in New York are as follows: In Manhattan, from a point opposite the Fort Lee ferry, south along the Hudson River around the Battery and north along the East and Harlem Rivers to the Jerome Ave. Bridge at 155th St. In New Jersey, south from Fort Lee ferry to Bayonne City, points on the north and east shores at Staten Island, between Bridge Creek (Arlington) and Clifton, both inclusive, and including Elm Park, Erastina and Shooters Island. In Brooklyn, from 69th St., Bay Ridge, north to Pot Cove, Astoria, Borough of Queens.

Rubber—Prices are slightly stronger than last month, most of the advance coming in the last few days of February. Up-river Para fine is now squarely at 60c., while up-river Para coarse cannot be had at less than 48c. Island fine is slightly easier, at 53 to 55c., while Island coarse is considerably cheaper at 29c. Balata sheet is 50 to 52c.; Ceylon sheet 62 to 64c., while Ceylon Crepe is higher at 63 to 65c. All of these prices are per pound.

Railway Ties—Conditions remain about the same as they were a month ago. However, should inquiries come from any of the ocean-going ports for a supply, there might be a rapid advance, due to the shipping conditions. We quote standard first-class ties as follows: 7x9 in. by 8 ft. 6 in., 72c.; 6x8 in. by 8 ft., 63c. These prices are f.o.b. New York.

Offering of National Forest Timber—The United States Forest Service is offering for sale 382,000,000 ft. of timber on the Crater and Paulina forest in Oregon. This is the largest body of timber ever placed on the market in Oregon by the Forest Service, and it stands among the largest of national forest timber offerings. The timber is in two blocks, one of 7120 acres, just east of the Crater Lake National Park; the other of 17,560 acres on the watershed of Bear Creek, near Upper Klamath Lake, in the Paulina forest. Both tracts are tributary to Klamath Falls, Ore. All but 10,000,000 ft. is Western yellow pine of good quality, the best being sugar, lodgepole and Western white pine. The location and topography of the larger area are described as excellent for logging and that of the smaller as fair. A cutting period of nine years will be allowed a purchaser of the smaller tract, twelve years for the larger, and a maximum of sixteen years to a purchaser of both tracts. It is estimated that an investment of $340,000 will be necessary for an operation on the larger tract.

The minimum price at which bids will be accepted is $3 per 1000 ft. for the yellow and other pines on the smaller tract, $3.25 on the larger tract, and 50c. per 1000 ft for the less important species, which may be removed at the option of the purchaser. Sealed bids will be received by the District Forester at Portland, Ore., until Apr. 10, 1915.

The Whiting Foundry Equipment Co., Harvey, Ill., recently made a wonderful record for prompt shipment on an order for a three-motor electric traveling crane, 10 tons capacity, 30 ft. span. Telegraphic order was received at its plant Jan. 23, calling for delivery of crane complete on purchaser's runway at New Bridge, Del., Feb. 10, 1915. Drawings were made, crane constructed, and shipment made Jan. 29, 1915. Crane reached New Bridge, Feb. 4, and was erected, complete, ready for service Feb. 6, or four days ahead of schedule time.

The Compressed Gas Manufacturers' Association, 25 Madison Ave., New York, desires that manufacturers of valves, cylinders, recording gages, filling and weighing stands, and materials and appliances which enter into the manufacture, transportation, and sale of compressed gases, send such printed matter as they may have to this Association.

The Troy Wagon Works Co., Troy, Ohio, announces that construction has been started on a new motor truck trailer works. The new building will be 120x140 ft., having a ground area of 1680 sq.ft. The company expects to turn out sixty trailers a week. Trailers are now made in three sizes: 1½ tons, 2½ tons, and 5 tons. All except the 1½ tons are reversible, while the 1½ tons is nonreversible.

Wood, Bancroft & Doty, railroad and grading contractors, has recently opened an office at 740 Reserve Bank Building, Kansas City, Mo., L. I. Viall being in charge. The home office of this firm is First National Bank Bldg., Omaha, Neb. This firm has the contract for the drainage work on the Delaware River in Atchison County, Kan., and work will be begun soon on this project. Some concrete bridge work at Lexington, Neb., is also under contract.

The Keasbey & Mattison Co., Ambler, Penn., announces that Howe Bros. has recently been appointed agent at 1198 San Pedro St., Los Angeles, Calif. This firm will carry and sell coverings and textile goods for the State of California south of Fresno, and also for the States of Arizona, New Mexico, and Utah.

The Troy Wagon Works Co., Troy, Ohio, announces the selection of J. L. Keir as the company's representative in Philadelphia. His office will be in the Abbott Bldg., Broad and Race St. He will sell Troy Trailers, Reversible Traction-Drawn Wagons, and Dump Wagons.

The Chapin Construction Co., paving contractors, formerly of Kansas City, Mo., is now located at 229 Monroe Bldg., San Antonio, Tex.

Activity of Manufacturers Commended—With the revival of business now seen from many points of view, it is interesting to note that the Mayor of St. Louis and the President of the St. Louis Business Men's League late in December wrote to all the St. Louis manufacturers urging them to follow the example of Broderick & Bascom Rope Co. That was to keep all their employees working, even if they had to be on part time. The particular work done by the Broderick & Bascom Rope Co. was that they so arranged their working force so that every employee on the payroll had work some of the time, and fortunately the company was able to keep its men better employed than most of the iron and steel manufacturers. In December the entire St. Louis plant was run full time, giving both day and night forces work. While this necessitated piling up some surplus stock, it kept the organization intact, so the manufacturing efficiency might be fully maintained when the demand became more lively.

The MacArthur Concrete Pile & Foundation Co., 11 Pine St., New York, N. Y., has appointed Waldo Bros., 45 Batterymarch St., Boston, Mass., sales agent for New England. This company has done a large amount of foundation work in New England, and is prepared to take contracts for all kinds of foundations.

CATALOG NOTICES

The Terry Steam Turbine Co., Hartford, Conn. Bulletin No. 19. Centrifugal pumps. Illustrated, 64 pp., 6x9 in.

The George Haiss Mfg. Co., 141st St. and Rider Ave., New York. Bulletin No. 115. Wagon loaders. Illustrated, 4 pp., 6½x9 in.

Buffalo Meter Co., 290 Terrace, Buffalo, N. Y. Bulletin. "Water Meter Rates and Regulations." Illustrated, 12 pp., 8½x10½ in.

James Leffel & Co., Springfield, Ohio. Pamphlet Z. Leffel, Samson and Niagara turbine water wheels. Illustrated, 24 pp., 6x9 in.

Hydraulic Turbine Corp., Camden, N. Y. Catalog D. Francis hydraulic turbines. Illustrated, 40 pp., 8x10½ in.

Alberger Heater Co., Buffalo, N. Y. Catalog. Multi-head water heaters, Ross expansion joint. Illustrated, 24 pp., 6x9 in.

The Atlas Car & Mfg. Co., Cleveland, Ohio, Bulletin No. 1175. Storage battery locomotives, cranes and cars. Illustrated, 32 pp., 6x9 in.

Blaw Steel Construction Co., Pittsburgh, Penn. Bulletin No. 65. Blawforms for concrete sidewalk, curb, curb and gutter, road and similar construction. Illustrated, 18 pp. 6x9 in.

C. O. Bartlett & Snow Co., Cleveland, Ohio. Bulletin No. 43. Skip hoists. Illustrated, 8 pp., 6x9 in.

Chas. T. Main, Engineer, 201 Devonshire St., Boston, Mass. Catalog. Industrial plants. Illustrated, 62 pp., 7½x9 in.

Chain Belt Co., Milwaukee, Wis. General Catalog No. 56. Elevating, conveying and concrete machinery. Illustrated. 304 pp., 6x9 in.

National Drain Tile Co., Terre Haute, Ind. Catalog. Drain tile. Illustrated, 46 pp., 4x9 in.

The Whalen Form, Syracuse, N. Y. Folder. Collapsible steel culvert form. Illustrated.

Bresee Mfg. Co., Mattoon, Ill. Folder. Road graders. Illustrated.

William B. Scaife & Sons Co., Pittsburgh, Penn. Pamphlet. Central Power Station Economy. Illustrated, 8 pp., 4x9 in.

The C. C. Fouts Co., Middletown, Ohio. Booklet. Pure iron silos, grain bins, tanks, garages, corrugated portable culvert pipe, metal shelving, etc. Illustrated.

Toledo Scale Co., Toledo, Ohio. Catalog. Automatic scales. Illustrated, 32 pp., 7½x11 in.

Felt & Tarrant Mfg. Co., Chicago, Ill. Pamphlet. The Comptometer as applied to Engineering Calculations. Illustrated, 24 pp., 6x9 in.

Evens & Howard Fire Brick Co., St. Louis, Mo. Booklet. Fire brick. Illustrated, 24 pp., 3x6 in.

Stow Flexible Shaft Co., Binghamton, N. Y. Bulletin No. 54. Stow flexible shaft and electric motor for drilling, grinding, screw driving, etc. Illustrated, 4 pp., 6x9 in.

Jeffrey Mfg. Co., Columbus, Ohio. Bulletin No. 143. Malleable and steel elevator buckets. Illustrated. 20 pp. Bulletin No. 147. Swing hammer pulverizers. Illustrated, 48 pp. Bulletin No. 167. Belt conveyors. Illustrated, 24 pp.

IMMIGRANTS ADMITTED INTO THE UNITED STATES

The reports of the Department of Commerce and Labor show that the immigrants admitted into the United States in December were 20,944, the smallest of any month on record, in the last decade. The total immigrants for the year 1914 numbered 688,495, which was likewise the smallest of any year since 1902. While the falling off is not all accounted for in the last five months of the year, it is well to note that for the six months ending Dec. 31, 204,884 were admitted, compared with 734,869 in the corresponding half year in 1913. The greater part of the falling off was naturally of the Polish and Hebrew races and those from the south of Italy.

In the accompanying table is shown the monthly total of immigrants arriving at ports of the United States, as reported by the Department of Commerce and Labor. From figures compiled for the last sixty years, the smallest immigration is shown in 1862, when only 72,183 aliens came to America, but immigration rapidly became normal, and by 1866 the tide was coming in nearly as strong as in the early '50's. The greatest number of immigrants admitted in any one year was in 1907, when 1,285,000 foreigners, classed as immigrants, came to these shores.

	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905
January	44,708	46,441	38,453	36,361	50,242	43,868	27,220	54,417	51,127	56,236
February	46,873	59,156	45,380	42,826	57,980	67,154	23,381	65,541	68,686	67,105
March	92,621	96,958	91,195	81,687	136,745	113,038	32,517	139,118	132,392	126,908
April	119,885	136,371	99,839	98,036	135,052	116,754	41,274	145,256	150,397	137,050
May	107,796	137,262	113,635	95,361	133,544	107,839	36,317	184,886	150,927	127,511
June	71,728	176,261	92,425	71,019	105,025	85,470	31,947	154,734	119,900	112,336
July	60,377	138,244	78,101	51,737	73,153	66,218	27,570	97,132	84,403	76,090
August	37,706	126,180	82,377	50,110	78,574	59,771	27,782	98,825	81,592	63,409
September	29,143	136,247	105,611	62,599	83,931	67,619	38,238	98,694	95,341	77,549
October	30,416	134,140	108,300	69,418	83,895	75,608	40,994	111,513	99,974	86,750
November	26,298	104,671	94,739	61,765	74,353	85,049	37,067	117,476	94,621	61,374
December	20,944	95,387	76,315	61,626	59,481	68,711	46,003	66,574	85,466	62,116
Total	688,495	1,387,318	1,026,370	782,545	1,071,885	751,786	782,870	1,285,349	1,101,725	1,026,499

RAILWAYS

North Carolina—W. W. Barber, Edgemont, and J. Robert Campbell, Newland, are interested in the construction of a railway from Edgemont to Newland, N. C., about 20 miles.

Georgia—It is reported that surveys are now being made for a line to be built from Jacksonville, Ga., northeast to Lumber City, about 20 miles. An old lumber line extending about half the distance between these two places is to form part of the new line. C. F. Smith, Pres., Ocmulgee River Lumber Co., is interested.

Florida—See item under "Miscellaneous"—Track Material, Jacksonville, Fla.

Mississippi—Mississippi Eastern Ry.—Plans are being considered by this company for the extension of its line from Quitman, Miss. P. Bowles, Quitman, is Ch. Engr.

Tennessee—Cincinnati, New Orleans & Texas Pacific Ry.—This company contemplates the extension of its line to North Chattanooga, Tenn. C. Dougherty, Cincinnati, Ohio, is Ch. Engr.

Kentucky—The Brodhead-Garrett Co., Clay City, Ky., contemplates the extension of its railway from the Nada Mill at Lombard, Ky., for a distance of five or six miles.

Kentucky—Lexington & Eastern R.R.—This company has authorized a bond issue of $7,500,000 for the purpose of financing the construction of extensions in eastern Kentucky, for which surveys have been made. Contracts for the work will soon be awarded. H. C. Williams, Louisville, Ky., is Ch. Engr. Constr.

Illinois—Burlington, Mississippi River & Eastern Ry.—This company is considering plans for the extension of its line from Keithsburg, Ill., to a point opposite Muscatine, Ia., then in an easterly direction to Cambridge and Kewanee, Ill., connecting with the Chicago division of the Chicago, Burlington & Quincy. It is estimated that 1,600,000 cu.yd. of earth excavation will be required, for which contracts will be let about May 1. There will be four bridges, varying in length from 50 to 250 ft. These will be concrete arches. M. J. Healy, Joy, Ill., is Pres. and Ch. Engr.

Wisconsin—Balsam Lake & Eastern R.R.—This company has applied to the Wisconsin Railroad Commission for permission to construct a six-mile railway in Polk County, Wis.

Kansas—St. Louis & San Francisco Ry.—Plans, it is reported, have been prepared by this company for the construction of a 15-mile branch from a point three miles north of Baxter Springs, Kan., to Miami, Okla. E. G. Jonah, St. Louis, Mo., is Ch. Engr.

Texas—Sulphur Springs, Quitman & Great Northern R.R.—This company has been organized for the purpose of constructing a railway from Sulphur Springs to Quitman, Tex., about 35 miles. The principal office of the company is at Sulphur Springs, Tex.

Oklahoma—St. Louis & San Francisco Ry.—See item under Kansas.

Oregon—Valley & Silez R.R.—This company will award contracts some time in May for the construction of its proposed ten-mile extension from Independence to Newport, Ore. R. L. Donald, Northwestern Bank Bldg., Portland, Ore., is Mgr.

California—Tidewater Southern Ry.—It is reported that this company will construct a railway from Turlock to Fresno, Calif., about 97 miles. J. H. Wallace, Stockton, Calif., is Ch. Engr.

California—Atchison, Topeka & Santa Fé Ry.—According to press reports this company is receiving bids for the construction of an extension to its line from Exeter to Lindsay, Calif., about ten miles. F. M. Bisbee, Amarillo, Tex., is Ch. Engr. Western Lines.

ELECTRIC RAILWAYS

New Britain, Conn.—The New Britain St. Ry. Co. is being organized to construct an electric railway to connect New Britain and Hartford and New Britain and Plainville. Mortimer H. Camp, New Britain, is interested.

Trenton, N. J.—The Trenton & Mercer County Traction Corporation contemplates an extension of the Warren and Fair St. line in Trenton to make a belt line to parallel the municipal docks. William H. Hitchcock, Trenton, is Gen. Mgr.

Jacksonville, Fla.—The Jacksonville-Middleburg Electric Ry. Co. is making preliminary arrangements for the construction of its line from Jacksonville to Middleburg, about 24 miles. The first ten miles have been financed. A. W. Mackinlay is Gen. Mgr.

Birmingham, Ala.—Surveys have been made and work will soon be started by the Pratt Consolidated Coal & Iron Co. for the construction of an electric railway from its Maxime mine to a point near the Warrior River.

Chicago, Ill.—The Chicago & Northern Interurban Ry. Co. has applied to the State Public Utilities Commission for permission to construct an electric railway from the city limits of Chicago to Wheeling, about 12 miles. Jordan E. Van Natta, Chicago, is Atty. for the company.

Pekin, Ill.—The Pekin & St. Petersburg Interurban Ry. Co. will soon award contracts for the reconstruction and extension of its lines in Pekin. G. W. McIntire, Pekin, is Gen. Mgr., Pur. Agt. and Ch. Engr.

Peoria, Ill.—The Peoria & Chillicothe Electric Ry. Co. will start work about Mar. 15 on the construction of its proposed electric railway to connect Peoria and Chillicothe, Ill.

Peoria, Ill.—The Chicago, Peoria & Quincy Traction Co. will soon start preliminary surveys for the construction of its proposed electric railway from Peoria to Quincy. J. L. Soebbing is Pres.

Quincy, Ill.—The Quincy Ry. Co. is considering plans for the reconstruction and improvement of its lines in Quincy. W. L. Peters, Quincy, is Ch. Engr.

Elkhart Lake, Wis.—Plans are being considered by the Sheboygan-Elkhart Lake Interurban Co. for the construction of an extension from Elkhart Lake to Chilton. Edward Hammett, Sheboygan, is Mgr.

Milwaukee, Wis.—The City Council has been petitioned by the residents on Green Bay Ave. and on 27th St. for an extension of the electric railway on the Third and 27th St. lines to the city limits of Milwaukee. Under the blanket franchise the Milwaukee Electric Ry. & Light Co. is obliged to develop its tracks as directed by the City Council.

Argenta, Ark.—The Argenta Ry. Co. contemplates the extension of its Washington Ave. line to the Rock Island station. E. W. Jackson, Little Rock, Ark., is Vice-Pres. and Ch. Engr.

Calico Rock, Ark.—J. M. Myers, Calico Rock, is interested in the construction of an electric railway from Calico Rock to Hoxie. Work will be started as soon as financial arrangements can be made.

Dallas, Tex.—The Dallas Southwestern Traction Co. is preparing to start work soon on the extension of its line from Dallas to Brownwood via Mansfield, Venus, Alvarado, Cleburne, Glen Rose, Hico and other towns. Eventually it will be extended west from Brownwood to San Angelo. E. P. Turner is Pres., S. P. Cockran, Vice-Pres., George Williams, Secy. and Treas., and John T. Witt, Ch. Engr.

McKinney, Tex.—The McKinney, Bonham & Paris Interurban Ry. Co. is making preliminary arrangements for the construction of its proposed electric railway to connect Bonham, McKinney, Paris and Blue Ridge. L. A. Scott is Pres.

Tulsa, Okla.—The Oklahoma Union Traction Co. is preparing plans for the general improvement of its lines in Tulsa. A. A. Small, Tulsa, is Pres. and Gen. Mgr.

Lewiston, Idaho—The Lewiston-Clarkston Transit Co. is preparing to start work about Mar. 15 on the construction of its proposed electric railway from Lewiston to Clarkston. W. N. Nortz, Devil's Lake, N. D., and R. C. Dahlhjelm, Lewiston, are interested. Noted Oct. 29 and Nov. 26, 1914.

Sausalito, Calif.—Bids will soon be received for the construction of the proposed incline railway from Sausalito to the summit of the heights, 1000 ft. above the city. A. E. Roberts, Sausalito, is Ch. Engr. Noted Oct. 22 and Jan. 7.

Stockton, Calif.—The Central California Traction Co. has applied to the City Council for a franchise to extend its lines on North Sacramento St. in Stockton. C. H. Robertson, Stockton, is Gen. Mgr.

London, Ont.—Plans are being considered by the London St. Ry. Co. to extend, double-track and install switches on some of its lines in London. C. B. King, London, is Gen. Mgr. and Pur. Agt.

Toronto, Ont.—Representatives of Whitechurch Township have petitioned the Hydro-Electric Power Commission of Ontario to survey and prepare estimates of constructing a radial railway from Whitechurch to Georgian Bay.

LIGHT, HEAT AND POWER

✦Boston, Mass.—The contract for heating and ventilating equipment in the new building of the Consumptives' Hospital on River St., Dorchester District, was awarded to PIERCE & COX at $7897, $7215 and $7247 for Items 1, 2 and 3 respectively. Edward F. McSweeney is Chn. of the Com.

✦Providence, R. I.—The following contracts have been awarded in connection with the remodeling of the Dexter Insane Asylum; Plumbing, to the GUARANTEE PLUMBING CO. at $5900; heating and ventilating, to the ALLEN FIRE DEPARTMENT SUPPLY CO. at $5614; electrical work to SCANNEVIN & POTTER, Providence, at $1450.

New London, Conn.—Bids are being received by Dudley St. Clair Donnelly, Arch., 98 State St., for the heating, plumbing and mechanical equipment of the Y. M. C. A. building, now in course of construction on Meridian St.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 10:30 a.m., Mar. 11, by George W. Wingate, Pres. of Pub. Recreation Comn., Municipal Bldg., Borough of Manhattan, for electrical work and gas piping, with all incidental work connected therewith, for the proposed Betsey Head Memorial Playground and Recreation Center located at Brownsville, Borough of Brooklyn.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 10:30 a.m., Mar. 8, by Robert Adamson, Fire Comr., Municipal Bldg., for a new steam-heating plant for the quarters of Engine Co. 15, 269 Henry St., Borough of Manhattan; for engine-heating systems at quarters of Hook and Ladder Co. 2, Lexington Ave. and 50th St., Manhattan, and Hook and Ladder Co. 146, 79 Richardson St., Brooklyn, and for additions and alterations to the heating systems at quarters of Engine Co. Nos. 25 and 54 and Hook and Ladder Co. Nos. 17, 28 and 35.

New York, N. Y.—(Borough of Richmond)—(Official)—Bids will be received until 10:30 a.m., Mar. 11, by John A. Kingsbury, Comr. of Pub. Charities, Room 1091, Municipal Bldg., Borough of Manhattan, for installing plumbing and water-supply, and heating apparatus in a new cottage for the agel and infirm at the New York City Farm Colony, Borough of Richmond. Charles B. Meyers, 1 Union Sq. W., New York, is Arch.

New York, N. Y.—(Borough of Queens)—Bids will be received until Mar. 8 by C. B. J. Snyder, Supt. of School Bldgs., Park Ave. and 59th St., Borough of Manhattan, for electrical work in Public School 85, Debevoise Ave., Long Island City, Borough of Queens.

✦Allentown, Penn.—The Board of Education has awarded contracts for equipment in the new High School as follows: Heating, power and ventilating plant to J. H. COONEY & CO., Harrisburg, at $58,787; complete electrical work to the WATSON-FLAGG ENGINEERING CO., 27 Thames St., New York, at $37,580; plumbing to WILLIAM H. TAYLOR & CO., Allentown, at $21,266. Bids were opened Feb. 10. Noted Jan. 28.

Baltimore, Md.—It is reported that plans are being considered for the installation of a new turbine in the high-pressure power station on South St., for the purpose of supplying additional power for lighting the city hall and court house, and for operating the elevators in the city hall. The estimated cost of the engine is $15,000.

Dayton, Va.—See item under "Water Supply—Irrigation."

South Boston, Va.—It is reported that the South Boston Electric Light & Power Co. plans improvements to its plant estimated to cost $10,000. J. A. Mebane is Cont. Agt., Mgr. and Supt.

Wilson, N. C.—The Board of Aldermen has asked the State Legislature for permission to issue $80,000 in bonds, the proceeds to be used for reconstructing the municipal electric-light plant. R. J. Grantham is Supt. of the plant.

Cordele, Ga.—The City Council is considering a special election for the purpose of voting on the question of issuing bonds for the construction of a municipal electric-light plant.

Miami, Fla.—Press reports state that the Miami Gas Co. has decided to extend its mains into a number of the suburbs of the city at a cost of about $100,000. The same amount will be spent in enlarging the plant and making other improvements.

Guntersville, Ala.—(Official) — The town of Guntersville contemplates the installation of an electric-lighting system within the next few months, and will consider offers for putting in the lights. D. Isbell is Mayor.

Hattiesburg, Miss.—The Board of City Commissioners is considering the installation of a municipal electric-light plant, although the city's contract with the Hattiesburg Traction Co. for furnishing light does not expire until April, 1917. Tentative estimates show that a plant of sufficient size can be installed at a cost of from $30,000 to $35,000. A. Fairley is City Clk.

Dayton, Ohio—The lowest bid received by the Board of Education for the heating and ventilating equipment of the new Dayton View School was that of M. J. Gibbon, Dayton, at $27,307. The lowest bid for plumbing and gasfitting was that of the Case, Ringelspaugh, Wilson Co., Dayton, at $10,626.

Ripley, Ohio—Bonds to the amount of $12,000 have been sold, the proceeds of which will be used for the installation of a municipal electric-light plant.

Toledo, Ohio—Bids were opened Feb. 14 by the Board of Education for the construction of the Detroit Ave. School. The lowest bids for several contracts follow: Plumbing, Eagan Bros. Co., $19,058; boilers, McNaull Boiler Mfg. Co., $5700; heating, Eagan Bros. Co., $15,351; electric wiring, R. H. Winters Electric Co., $2275; temperature regulation, Johnson Service Co., Milwaukee, Wis., $3400.

Ft. Wayne, Ind.—The Board of Works will soon advertise for bids for an 800-hp. high-pressure boiler to replace two 300-hp. boilers in the municipal electric-light plant. John Wessel, Jr., is Secy. and Mgr. of the plant.

Croswell, Mich.—The City Council has passed an ordinance for 24-hr. service from the municipal electric-light plant. J. Stark, Detroit, has been engaged to oversee the installation of the necessary additional equipment. G. C. Hanson, Croswell, is Mgr. and Supt. of the municipal plant.

Detroit, Mich.—The Ford Motor Co. is making improvements at its power plant at the Detroit factory, including the installation of four direct-current generators, 3800 kw. each, 230 volts.

Engadine, Mich.—The Edwin Bell Co., manufacturer of kegs, staves, etc., contemplates the installation of a power plant in its factory. The plant will have sufficient output to furnish lights for the streets and residences of the village.

Portage, Mich.—The Town Board has decided to submit to the voters the question of a bond issue of $100,000 to be used for the construction of a municipal electric-light plant. It has not yet been decided whether the matter will come up at the April election, or later at a special election.

Brookston, Minn.—The City Council has granted a franchise to L. P. Runkle for the installation and operation of an electric-light and power plant.

Windom, Minn.—(Official)—Bids will be received until 7 p.m., Mar. 16, by W. M. Hale, Village Recdr., for the installation of a municipal electric-light plant and distribution system for the village. Earle D. Jackson, St. Paul, Minn., is Consult. Engr.

Gridley, Kan.—Plans are under consideration for the installation of an electric-lighting system in Gridley. It is reported that energy to operate it will be obtained from the Burlington Light, Power & Mfg. Co., Burlington, Kan.

Osawatomie, Kan.—It is reported that bids will soon be asked for remodeling the municipal electric-light plant. B. L. Prier is Supt.

Salina, Kan.—The Salina Light, Power & Gas Co. is reported to be considering improvements to its plant during the year, at an estimated cost of $40,000. Tentative plans include an addition to the power station, new boilers and generators. W. E. McFadden, Salina, is Gen. Mgr.

✚Wellington, Kan.—The City Commissioners have awarded the contract for equipment for the new municipal electric-light plant to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Penn., at $30,700. Noted Dec. 3.

Adams, Neb.—(Official)—Bids will be received until 8 p.m., Mar. 12, by Charles Putney, Village Clk., for one oil engine, one generator, poles and material for the construction of an electric-light plant. Estimated cost, $4000. Johnson & Johnson, Falls City, Neb., is Engr.-in-Charge.

Deepwater, Mo.—(Official)—Bids will be received until Mar. 16 by the City Council for the construction of a municipal electric-light plant and for furnishing one 50-hp. oil engine. J. P. Davis & Co., Windsor, Mo., is Consult. Engr. Noted Feb. 25.

Marshall, Mo.—For the third time within 15 months, the citizens, at an election held Feb. 23, defeated the question of issuing bonds for $70,000 to be used in constructing a municipal electric-light plant.

Cabot, Ark.—The Cabot Light & Power Co. has been organized for the purpose of constructing an electric-light plant in Cabot. M. Young is Pres., D. Jenkins, Vice-Pres. and J. H. Hagan, Secy.

Gurdon, Ark.—(Official)—See item under "Water Supply—Irrigation."

Houston, Tex.—It is reported that the City Commissioners have decided to construct two municipal power plants. The first one, for which bids will shortly be asked, will provide power for lighting several bridges and the municipal buildings, and for operating some of the machinery of the waterworks system. The second and larger plant will be located on the ship channel, and is designed to operate the wharf machinery on the municipal piers. The two plants will cost approximately $75,000. E. E. Sands is City Engr.

Tombstone, Ariz.—The City Council is preparing to secure estimates of the probable cost of establishing a municipal electric-light plant in Tombstone.

Albion, Wash.—It is reported that the City Council has appointed a special committee to investigate the feasibility of installing a municipal electric-light plant. Charles Huff is a member of the Com.

BRIDGES

Butler, Penn.—(Official)—Bids will be received until noon, Mar. 9, by the Commissioners of Butler County for the construction of five county bridges, one each in Worth, Clay, Adams, Middlesex and Jefferson Townships. W. B. Scott is Clk, of Comrs.

Harrisburg, Penn.—Bids will be received until Mar. 17 for the construction of a double-track railway bridge over the Susquehanna River at Harrisburg for the Cumberland Valley R.R. It will be about 4000 ft. long, and will have 46 spans. The estimated cost is $750,000. Thomas B. Kennedy, Chambersburg, Penn., is Engr. of the Cumberland Valley R.R. Noted Jan. 1 and 15, Apr. 16, 1914; Jan. 21 and Feb. 4, 1915.

✚✚Philadelphia, Penn.—(Official)—The Department of Public Works opened bids Feb. 25 for the construction of a bridge to carry Broad St. over the railway tracks, South Philadelphia track extension. All bidders of Philadelphia, unless otherwise noted. The bids follow: MacArthur Bros. Co. and Mason & Hanger Co., 11 Pine St., New York, N. Y., $306,000; Charles P. Bower, Wayne and Roberts Ave., $339,000; Robert Grace Contracting Co., 514 Smithfield St., Pittsburgh, $293,800; American Paving & Construction Co., 211 South Ninth St., $314,500; M. & J. B. McHugh, 714 Commercial Trust Bldg., $339,000; Snare & Triest Co., 233 Broadway, New York, $258,800; Carl R. Camp, Crozer Bldg., $292,800; E. E. Smith Contracting Co., 101 Park Ave., New York, $355,000; William H. Millard, 12th St. and City Line, $255,900; A. L. Guidone & Co., 131 East 23d St., New York, $357,500; McHarg-Barton Co., 171 Madison Ave., New York, $287,400; Francis J. Boas, 201 North Broad St., $322,000; Thomas F. Reilly, 50th St. and City Ave., $287,157; Kelley-McFeeley Co., 432 Market St., Camden, N. J., $301,900; ARTHUR McMULLEN CO., 149 Broadway, New York, $237,600 (awarded contract); Edwin H. Vare, 1120 Race St., $250,000. Noted Feb. 11.

Pottstown, Penn.—Plans are being discussed for the construction of a bridge over the Schuylkill River to replace the present structure which is reported to be in a dangerous condition. Montgomery County will be asked to pay a part of the cost of building the bridge.

West Chester, Penn.—Bids will be received until 11 a.m., Mar. 8, by the Commissioners of Chester County for repairs to two bridges over Brandywine Creek south of Chadds Ford.

York, Penn.—(Official)—Bids will be received until 10 a.m., Mar. 18, by the Board of Commissioners and the Controller of York County for the construction of a reinforced-concrete or steel bridge over the south branch of Muddy Creek on the road between Muddy Creek and Gatchelville, between East Hopewell and Fawn Townships. The bridge will be about 55 ft. long, with a 14-ft. roadway. F. S. Bartenschlager is County Controller.

✚Lawrenceville, Va.—(Official)—The Board of Supervisors of Brunswick County has awarded the contract for the construction of a steel bridge over the Meherrin River, about two miles from Lawrenceville, to the ROANOKE BRIDGE & IRON CO., Roanoke, Va. Noted Feb. 11.

Suffolk, Va.—The City Council and the Commissioners of Nansemond County contemplate the construction of a steel bridge across the Nansemond River.

✚Germanton, N. C.—The Board of Commissioners of Stokes County, Danbury, has awarded the contract for the construction of a bridge over Buffalo Creek at Germanton, to the VIRGINIA BRIDGE & IRON CO., Roanoke, Va., at $5423. The bridge will be about 280 ft. long.

Atlanta, Ga.—The City Council has decided to repair the bridge and tracks of the Whitehall St. Viaduct at a cost of approximately $8150. Samuel Freeman is Chn. of the Bridge Comn.

Jacksonville, Fla.—The Board of Commissioners of Duval County will submit to the voters the question of a bond issue for the construction of three reinforced-concrete bridges as follows: A bridge over Trout Creek at Main St.; a bridge over McGirts Creek at Ortega, and a bridge over Six-Mile Creek on the Moncrief Rd. John H. Patterson is Chn. of Bd. of Comrs.

Jacksonville, Fla.—(Official)—Bids will be received until Mar. 8 by Frank Brown, Clk. of Comrs. of Duval County, for repairing the Trout Creek Bridge on Fernandina Rd. at Panama. E. A. Ricker is Chn. Bd. of County Comrs.

Jasper, Ala.—(Official)—Bids will be received until Mar. 15 by Charles M. Sartain, Chn. Bd. of Comrs. of Walker County, for the construction of four steel bridges over the Black Warrior River at Cordova, Sipsey Fork, Mulberry and Town Creek.

Lake Charles, La.—(Official)—In the issue of Feb. 18, an item was published under Orange, Tex., announcing the award of the contract for a bridge over the Intercoastal Canal to Perry & Bonner, Lake Charles. This improvement should be credited to Calcasieu Parish, La., as a part of the work done under the $900,000 bond issue for bridges and highways. The contract was awarded to the firm in question last summer for two bridges, located 12 miles east of Orange, Tex. The first bridge was completed last October, and piers and abutments for the second are finished, and a part of the steel erected.

✚Louisville, Ky.—The Board of Public Works has awarded the contract for the construction of a concrete culvert over Drescher St. to the L. W. HANCOCK CO., Louisville, at approximately $5000. Noted Feb. 18.

Jackson, Mich.—The City Council contemplates the construction of a reinforced-concrete or steel bridge over the Grand River at Mechanic St. The estimated cost is $10,000. A. W. D. Hall is City Engr.

Chicago, Ill.—It is reported that the Chicago & Northwestern Ry. is making preliminary surveys at Sheboygan, Oshkosh, Manitowoc and Green Bay, Wis., for replacing its stationary and draw bridges at those points with new structures. The total cost is estimated at $200,000. W. H. Finley, Chicago, is Ch. Engr. of the Chicago & Northwestern Ry.

Dixon, Ill.—Press reports state that, at the spring election, the citizens will be asked to vote on the question of a bond issue for the construction of a new bridge over the Rock River at Peoria Ave. Tentative plans call for a reinforced-concrete structure, 55 ft. wide. The estimated cost is $80,000. H. L. Fordham is Chn. of a special committee appointed to promote the plan.

Murphysboro, Ill.—Plans have been completed by William W. Marr, County Engr., for the construction of the Rattlesnake Ferry Bridge, between Tower and Pomona Townships, Jackson County. It will have one 180-ft. steel span, reinforced-concrete piers and abutments, creosote block floor. The estimated cost is $10,000. Thomas G. Duncan is County Supt. of Highways.

Green Bay, Wis.—(Official)—We are advised by A. Brauns, City Engr., that the question of a bond issue, to be used for the construction of a bascule bridge across the East River at Main St., will be submitted to the voters at the April election. If the issue carries, bids will be asked at once. Noted Feb. 11.

Madison, Wis.—The Wisconsin Railroad Commission has ordered the Chicago, Milwaukee & St. Paul Ry. to build a reinforced-concrete bridge over its Sauk Rd. crossing, Mendota Beach, near Madison. The estimated cost is $15,000. The bridge is to be completed in nine months. C. F. Loweth, Chicago, Ill., is Ch. Engr. of the railway company.

✚Ft. Madison, Iowa—The Supervisors of Lee County, Fort Madison, and Des Moines County, Burlington, have awarded the contract for furnishing lumber to repair three bridges over the Skunk River, between the two counties, to FRANK SALLEN, Ft. Madison, at $35 per M ft.

✚Knoxville, Iowa—(Official)—The Board of Supervisors of Marion County has awarded the following contracts for bridge construction: L. B. CHILD, Nevada, Iowa, five truss spans, $24,200; 21 culverts, $7758; THOR CONSTRUCTION CO., Cedar Falls, Iowa, four beam spans, $5240, 28 culverts, $10,760; WESTERN BRIDGE & CONSTRUCTION CO., Omaha, Neb., 21 culverts, $8800. W. O. Price is County Engr. Noted Feb. 4.

Primghar, Iowa—The Board of Supervisors of O'Brien County has passed a resolution of necessity for the construction of 25 bridges and culverts at an estimated total cost of $17,471.

Waterloo, Iowa—Bids for the construction of 14 county bridges during 1915 were received by the Supervisors of Blackhawk County from the following: H. S. Bougon, Waterloo, $18,982; Waterloo Construction Co., $21,990; Iowa Bridge Co., Des Moines, $22,300; Western Bridge & Construction Co., Harrisonville, Mo., $22,90; Boone Construction Co., Boone, Iowa, $27,000.

Caledonia, Minn.—(Official)—Bids will be received until 1 p.m., Mar. 16, by E. N. Newhouse, Audr. of Houston County, for building state bridges in the Towns of Winnebago, Brownsville, Houston and Mayville, Houston County.

East Grand Forks, Minn.—The City Council opened bids Feb. 23 for building an approach to the De Mers Ave. Bridge and for repairing the bridge, made necessary by a recent fire. The following are the bids: Jardine & Anderson, Fargo, N. D., $13,771; M. A. Adams & Co., Minneapolis, $14,397; Great Northern Bridge Co., Minneapolis, $13,878; Iowa Bridge Co., Minneapolis, $14,000.

✚Mora, Minn.—The contract for State Bridges Nos. 1607, 1608 and 1632 has been awarded to the WAUSAU IRON WORKS, Wausau, Wis., at $10,759. Other bidders were: M. A. Adams & Co., Minneapolis, $10,994; Minneapolis Bridge Co., Minneapolis, $11,900; Hewitt Bridge & Steel Co., Minneapolis, $11,950; Hennepin Bridge Co., Minneapolis, $11,054; Minneapolis Steel & Machinery Co., Minneapolis, $11,395.

Owatonna, Minn.—It is reported that bids will be received until Mar. 9 by M. J. Parcher, Audr. of Steele County, for the construction of a reinforced-concrete bridge, Summit Township. The superstructure will have three 14-ft. spans and an 18-ft. roadway.

✚Liberal, Kan.—(Official)—The Board of Commissioners of Seward County has awarded the contract for the construction of two wooden pile bridges over the Cimarron River to the WESTERN BRIDGE CO., Harrisonville, Mo. Seven other bids were received. A. K. Stoufer is County Clk. Noted Feb. 11.

Red Cloud, Neb.—Bids will be received until noon, Mar. 23, by J. J. Garber, County Clk. of Webster County, for culvert and bridge construction during 1915, and for furnishing steel I-beams and reinforcing rods.

✚Vermilion, S. D.—The Board of Commissioners of Clay County has awarded the contract for the construction of wood and steel bridges during 1915 to the FEDERAL BRIDGE CO., Des Moines, Iowa. The contract for all concrete bridges was awarded to WARD & WEIGHTON, Sioux City, Iowa.

★Billings, Mont.—(Official)—Bids will be received until noon, Mar. 20, by the Board of Commissioners of Yellowstone County, for the construction of two highway bridges over the Yellowstone River, one near the mouth of Pompey's Pillar Creek, and the other near the mouth of Duck Creek. F. E. Williams is County Clk. Noted Oct. 15 and 29, Nov. 19, Dec. 17, 1914 and Feb. 11, 1915.

Texarkana, Ark.—Press reports state that plans are being considered for the construction of a steel bridge across the Red River near Fulton to connect Miller and Hempstead Counties. If built, the bridge will accommodate railway traffic, and it is hoped the railways entering Texarkana wil pay a part of the cost of construction.

Floresville, Tex.—It is reported that the Commissioners of Wilson County will receive bids early in March for the construction of two bridges.

Houston, Tex.—The lowest bid received by the City Council for the construction of the Milam St. Bridge was that of J. H. Richardson, at $37,397. The bids were referred to the City Engr for tabulation. Bids were opened Feb. 10. Noted Feb. 4.

Blackwell, Okla.—Press reports state that the Atchison, Topeka & Santa Fé Ry. is preparing to replace its wooden trestle just north of Blackwell with a new steel bridge.

Oklahoma, Okla.—(Official)—Bids will be received until Mar. 8 by M. Cornelius, Clk. of Oklahoma County, for the construction of a concrete bridge.

Bellingham, Wash.—(Official)—Bids will be received until 2 p.m., Mar. 18, by W. D. Wallace, Audr. of Whatcom County, for the construction of a 380-ft. steel bridge on reinforced-concrete piers over the Nooksack River on the Guide Meridian Rd. C. M. Adams is County Engr.

Bellingham, Wash.—(Official)—We are advised by Charles Lindbery, City Engr., that the construction of new bridges at Grant, Sylvan, Prospect, James and Elk St. has been postponed for another year, on account of lack of funds. The bridges, if of concrete, will cost about $100,000, or $30,000, if of timber. Noted Dec. 10 and 24, 1914.

Tumwater, Wash.—The Town Council and the Board of Commissioners of Thurston County, Olympia, will build a reinforced-concrete bridge on the Pacific Highway over Des Chutes River. The new bridge will replace the present structure which has been declared unsafe. The estimated cost is $10,000.

Portland, Ore.—The lowest bid received by the Board of Commissioners of Multnomah County for the construction of three reinforced-concrete bridges on the Columbia Highway between Warrendale and Bonneville was that of the Ferch, Goss, Scott, Hicks Co., Seattle, at $36,477. Noted Jan. 14 and Feb. 4.

✚Portland, Ore.—(Official)—The Bridge Department of the State Highway Commission has awarded contracts for the construction of three reinforced-concrete bridges on the Columbia Highway, Multnomah County, as follows: Bridges Nos. 9 and 11, to ROBERT WAKEFIELD, Portland, at $16,904 and $3979 respectively; Bridge No. 10, A. GUTHRIE & CO., Portland, $14,364. C. H. Purcell is Bridge Engr. of the Comn. Noted Jan. 14 and Feb. 4.

Vale, Ore.—It is reported that the Commissioners of Malheur County will shortly advertise the sale of bonds for $30,000, the proceeds of which will be used for the construction of the Big Bend Bridge over the Snake River.

Riverside, Calif.—It is reported that the City Trustees have decided to build a reinforced-concrete bridge over Tequesquite Arroyo. The structure will be 70 ft. high, and is estimated to cost from $50,000 to $60,000. A. P. Campbell is City Engr.

✚San Gabriel, Calif.—The City Trustees have awarded a contract for the construction of a reinforced-concrete culvert with fill and abutment walls to E. J. DENMAN, 1614 West 47th St., Los Angeles, at $4295.

Moncton, N. B.—(Official)—Bids will be received until noon, Mar. 31, by the Department of Public Works, Fredericton, for the construction of the substructure, superstructure and approaches of a bridge over the Petitcodiac River between the City of Moncton, Westmoreland County, and Parish of Coverdale, Albert County, John Morrissy is Minister of Pub. Wks.

Caledonia, Ont.—Bids will be received until Mar. 6 by Harry Buckner, Chn. of Rds. for the County of Haldimand, for the construction of a foot path, 600 ft. long and four ft. wide, on each side of the Caledonia Bridge over the Grand River.

WATER SUPPLY—IRRIGATION

Boston, Mass.—Bids will be received until Mar. 5 by the Public Works Department for assembling 725 hydrants and valves. L. K. Rourke is Comr.

Warren, Mass.—A bill will be passed upon by the State Legislature for the construction of a water system. The estimated cost is $75,000. Noted Nov. 5.

New York, N. Y.—(Official)—Bids will be received until Mar. 23 by the Board of Water Supply, Municipal Bldg., for work under Contract 123. The work includes the construction of six superstructures for Kensico influent, upper and lower effluent, screen chambers and Kensico siphon chambers.

New York, N. Y.—(Boroughs of the Bronx and Manhattan)—(Official)—Bids will be received until 2 p.m., Mar. 11, by the Department of Water Supply, Gas and Electricity for constructing a 12-in. water main across the East River from East 140th St. to North Brother Island and for laying water mains in East 140th St. and on North Brother Island. William Williams is Comr.

New York, N. Y.—(Official)—Bids will be received until 11 a.m., Mar. 23, by the Board of Water Supply, Municipal Bldg., Borough of Manhattan, for constructing six concrete stone and brick buildings near the Kensico Reservoir, Mt. Pleasant. Charles Strauss is Pres. Bd. of Water-Supply.

New York, N. Y.—(Boroughs of the Bronx, Manhattan and Queens)—(Official)—Bids will be received until 2 p.m., Mar. 8, by the Department of Water Supply, Gas and Electricity for laying water mains in Southern Blvd., Bronx; laying water mains in Buckley, Goodrich, Marion, Meadow, Packard, Sanford, Trowbridge and 13th St., in Ditmars, Hunter, Pleasure, Skillman, Fourth, Seventh and 11th Ave., and in Weil Pl., Queens; in Grosvenor, High, Miller, First, Seventh, 12th, North 15th, North 16th and 24th St., in Beverly, Hillside, Summit and Taylor Ave., in Arleight, Fresh Meadow, Manor and Ridge Rd., in Elsie and Franklin Pl. and in Lawrence Blvd., Queens; for furnishing, and storing c.-i. pipe, specials and valve box castings, valves, and double nozzle fire hydrants.

Asbury Park, N. J.—Bids will soon be received for the construction of 12-in. water mains.

★Atlantic City, N. J.—(Official)—Bids will be received Mar. 11 by the Board of Commissioners for one 18,000,000-gal. turbo-centrifugal pump at the Absecon pumping station. Harry Bacharach is Dir. of Parks and Pub. Property.

✚Hawthorne, N. J.—(Official)—The contract has been awarded to GEORGE B. RICHARDSON, Ridgewood, at $41,400 for laying water mains and building reservoir. Noted Jan. 21 and Feb. 25.

Newark, N. J.—All bids received Feb. 24 by the Board of Chosen Freeholders for constructing an additional water-supply at the Overbrook Hospital have been rejected. The low bidder was James F. Kelly, East Orange, at $17,888. Noted Dec. 3 and Feb. 18.

Herndon, Penn.—The construction of a water system is under consideration by the Borough Council.

Scottdale, Penn.—(Official)—Chester & Fleming, Pittsburgh, is preparing an appraisal of the water system to be submitted to the Borough officials.

✚★Kensington, Md.—(Official)—The contract for constructing a water system has been awarded to the CANTRELL CONSTRUCTION CO., Philadelphia, Penn., at $40,000. E. W. Moore is Mayor. Noted July 9 and Dec. 17.

Dayton, Va.—Bonds for $24,500 have been voted by the citizens. The proceeds will be used for the construction of water and sewer systems and an electric-light plant.

Union, S. C.—Bonds for $25,000 have been voted by the citizens, the proceeds of which will be for the extension of the water mains, constructing a pumping station and for erecting a 6600-volt, 3-phase transmission electric line. R. A. Easterling is in charge. Noted Feb. 4.

Alma, Ga.—An election will be held to vote on the question of issuing $15,000 in bonds, the proceeds of which will be used to construct a water system.

Hawkinsville, Ga.—Bonds for $20,000 have been voted by the citizens, the proceeds of which will be used for the extension of the water and sewer systems. G. W. Jordan is Mayor. Noted Feb. 4.

De Ridder, La.—Bonds for $24,000 have been voted by the citizens, the proceeds of which will be used for the purchase and improvement of the water system.

Maryville, Tenn.—An election will be held Mar. 20 to vote on the question of issuing $55,000 in bonds, the proceeds of which will be used for the construction of a water system. Noted Apr. 30, 1914.

Covington, Ky.—Bonds will soon be sold, the proceeds of which will be used for the construction of the emergency water mains across the Licking River. H. G. Meiners is City Engr. Noted Nov. 19 and Dec. 24.

Akron, Ohio—Bids will be received until Mar. 5 by C. P. Barker, Dir. of Pub. Ser., for 2500 tons 4-in. to 12-in. c.-i. pipe and 61 tons of specials.

Amsterdam, Ohio—The citizens at a recent election voted against the question of issuing bonds for the construction of a water system.

✚Canton, Ohio—The contract has been awarded to the ROBINSON FIRE APPARATUS MFG. CO., St. Louis, Mo., at $8970 for a triple combination motor pumping engine. Noted Nov. 19.

Cleveland, Ohio—(Official)—Bids will be received until noon, Mar. 12, by the Commissioner of Purchases and Supplies for valves, c.-i. pipe, specials and miscellaneous castings for the water department.

★Cleveland, Ohio—(Official)—Bids will be received until noon, Mar. 17, by the Commissioner of Purchases and Supplies for constructing a filtered water reservoir. For details see advertisement under "Contracts To Be Let."

East Liverpool, Ohio—(Official)—We have been advised that plans will be completed about May 1 for the construction of a 6,000,000-gal. mechanical filtration plant, a new pumping station and additional force mains. The estimated cost is $334,000. Chester & Fleming, Pittsburgh, Penn., is Engr. Noted Feb. 11 and 18.

✚Middletown, Ohio—The contract for installing a 150-hp. steel header boiler at the city water-works has been awarded to the BABCOCK & WILCOX CO., New York, N. Y., at $4596.

Napoleon, Ohio—William G. Clark, Consult. Engr., Toledo, has been retained by the Board of Public Affairs to prepare plans for the installation of a filtration plant. Noted Dec. 24 and Feb. 18.

Port Clinton, Ohio—An ordinance has been passed by the Council for rebuilding the pumps at the water-works pumping station. The estimated cost is $10,000.

Toledo, Ohio—(Official)—The time for receiving bids for constructing and equipping a high-pressure fire service pumping station has been extended to noon, Mar. 18. A. W. Boardman is Dir. of Pub. Ser. Noted Feb. 25.

Westerville, Ohio—An election will be held Mar. 22 to vote on the question of issuing $20,000 in bonds, the proceeds of which will be used for the construction of a water system.

✚Michigan City, Ind.—The contract has been awarded to NELSON BROS. & CO., Muskegon, Mich., at $16,000 for laying 2400 ft. of water mains. Noted June 4 and July 2, 1914, and Jan. 28, 1915.

New Albany, Ind.—The Indiana Public Service Commission has ordered the New Albany Water Co. to install a filtration plant.

Aurora, Ill.—An election will be held in April to vote on the question of issuing bonds for $75,000, the proceeds to be used for the improvement of the water system.

Franklin Park, Ill.—Bids are being received, according to press reports, for driving a 1600-ft. artesian well. H. L. Emerson, 1118 Chamber of Commerce Bldg., Chicago, is Consult. Engr.

Paris, Ill.—Bids will be received until Mar. 15 by J. C. Riedel, City Clk., for the purchase of $90,000 in bonds, the proceeds of which will be used for the construction of a reservoir and filtration plant. Fleming & Babbitt, Urbana, is Engr. Noted Jan. 28 and Feb. 11.

Bloomington, Wis.—L. J. Wolf, St. Paul, Minn., has been retained by the Village Board to prepare plans for the construction of a water system. The estimated cost is $12,000, bonds for which have been voted. M. F. Woodhouse is Chn. of the Bldg. Comn. Noted Oct. 1.

Milwaukee, Wis.—Bids will be received until Mar. 15 by the Department of Public Works for the following materials: One 36-in. gate valve with 9-in. by-pass; 40 2-in., 15 3-in. and 25 4-in. special or tapping valves and 10 8-in., 10 12-in. and 2 16-in. gate valves. F. G. Simmons is Comr.

Milwaukee, Wis.—Bids will be received until 10:30 a.m., Mar. 10, by the Department of Public Works for laying 6-, 8-, 10- and 12-in. c.-i. water pipe. F. G. Simmons is Comr.

Mineral Point, Wis.—Henry Kleinhammer, Platteville, has been retained by the Common Council to prepare plans for the construction of a standpipe and pumping station for the municipal water system.

Wittenberg, Wis.—W. G. Kirchhoffer, Madison, has been retained by the Board of Trustees to prepare tentative plans for the construction of a water system for fire protection.

✚Council Bluffs, Iowa—The contract for constructing a 125,000-gal. tank on Charles St. has been awarded to the MEMPHIS STEEL & CONSTRUCTION CO., at $4435.

Dixon, Iowa—At a recent election the citizens voted in favor of installing a water system.

Burrton, Kan.—According to press reports bonds for $25,000 have been voted by the citizens. The proceeds will be used for the installation of a water system. Noted Dec. 24.

St. Paul, Neb.—At an election held Feb. 9 the citizens defeated the bond issue, the proceeds of which was to have been used for the construction of a water system. Noted Jan. 28.

Chillicothe, Mo.—Bids will be received until Mar. 9 by Fred W. Cornue, City Audr., for 600 tons of c.-i. pipe, 10,000 lb. of specials and valves. Harper & Stiles, Grand Ave., Temple, Kansas City, Mo., is Engr. Noted Feb. 11.

Gurdon, Ark.—(Official)—Bids will be received until Apr. 6 for the purchase of $102,000 in bonds, the proceeds of which will be used for the installation of water and sewer systems and electric-light plant. Albert C. Moore, Frisco Bldg., Joplin, Mo., is Engr. Noted Jan. 14.

Leslie, Ark.—The J. B. McCrary Co., Atlanta, Ga., according to press reports, has been retained to make surveys for the construction of water and sewer systems.

✚Barstow, Tex.—The contract for constructing a reservoir for irrigating in Ward County, District No. 1, has been awarded to the BAKER MFG. CO. Noted Oct. 22.

Buenavista, Tex.—The Interstate Realty Co. plans to enlarge its storage reservoir near Buenavista. A dam, estimated to cost $100,000, will be constructed.

Houston Heights, Tex.—The Houston Heights Light & Water Co. contemplates laying six miles of high-pressure water mains.

Langston, Okla.—An appropriation of $20,000 has been made for the installation of water and sewer systems at the Colored Agricultural and Normal School.

Phœnix, Ariz.—The Salt River Valley Water Users Association plans to build a dam across the Verde River at an estimated cost of $1,250,000.

View, Idaho—(Burley post office)—The water-rights in Spring Cañon, four miles above View, have been purchased by the View Development Co., View. A water system will be constructed. J. C. Burgess and J. D. Hoagland are interested.

Seattle, Wash.—The Board of Public Works has approved plans for the laying of water mains in Fifth Ave. W. The estimated cost is $9000. L. B. Youngs is Supt. of Water-Wks.

✚Seattle, Wash.—The contract for laying water mains in 31st Ave. S. has been awarded to L. R. ELLIS, Central Bldg., Seattle, at $10,175.

Ashland, Ore.—According to press reports Smith-Emery Co., San Francisco, Calif., has been retained by the city to prepare plans for the construction of an auxiliary water system. The estimated cost is $175,000. Noted Dec. 10.

Eugene, Ore.—Bids will be received about Mar. 15 by C. W. Gellen, Secy. Water Dept., for constructing a 2,500,000-gal. reservoir. F. W. Dietrich, Eugene, is Engr. Noted Oct. 8 and Feb. 11.

Portland, Ore.—Bids were received by J. R. Wood, Pur. Agt., for c.-i. pipe and specials as follows: United States Cast Iron Pipe & Foundry Co., Portland, all sizes, $128,415; American Cast Iron Co., Birmingham, Ala., 6 to 24-in., 59,685; Oregon Iron & Steel Co., Portland, 6 to 24-in., $60,185; R. D. Wood & Co., Philadelphia, Penn., 6- to 8-in., $137,480 and Crane & Co., Portland, all sizes, $151,750. Noted Feb. 11.

Reedley, Calif.—(Official)—Specifications are being prepared for a direct connected gas engine and pump (horizontal centrifugal) to deliver 750 gal. per min. against a head of 180 ft. for the water department. Charles M. Knauer is City Clk. Noted Dec. 17.

San Diego, Calif.—The City Council has authorized the installation of a 4-in. water main in Dwight St. W. R. Fay is Supt. of Water-Works.

San Fernando, Calif.—An election will be held Mar. 10 to vote on the question of issuing $73,000 in bonds. The proceeds will be used for the purchase of the holdings of the two water companies and for making extensions. I. B. Funk is City Engr. Noted Feb. 11.

San Francisco, Calif.—An election will be held Apr. 20 to vote on the question of issuing $34,500,000 in bonds. The proceeds will be used for the purchase and improvement of the Spring Valley Water Co. Noted Aug. 13.

Montreal, Que.—The installation of a mechanical filtration plant has been recommended by Hering & Fuller, Engr., New York, N. Y.

London, Ont.—According to press reports H. C. Glaubitz, Engr., is preparing plans for the installation of pumps and hydraulic equipment at the Springbank pumping station. The estimated cost is $30,000.

Paris, Ont.—The Town Council plans to build two purification plants. Each plant will have a capacity of 9,900,000-gal. per day and will be purified by ozone. Thomas McCash is Clk.

SEWERS

✚Boston, Mass.—The contract for iron castings for the Public Works Department of Sewers has been awarded to the GIBBY FOUNDRY CO., at $178 per lb.

New York, N. Y.—(Borough of Brooklyn)—The low bidder for removing the temporary sewer from the Fourth Ave. subway between Hanson Pl. and Butler St. was the Norton & Gorman Co., at $15,198.

Oriskany, N. Y.—The Council has retained A. M. Scripture, New Hartford, to prepare plans for the construction of a sewer system and sewage-disposal plant.

Seneca Falls, N. Y.—Press reports state that the state may rebuild the trunk sewer along the bank of the Cayuga and Seneca Canal. F. M. Williams, Albany, is State Engr.

West Seneca, N. Y.—(Buffalo post office)—(Official)—Bids will be received until 3 p.m., Mar. 9, by C. L. Schudt, Supervisor, for the purchase of $25,380 in bonds, the proceeds of which will be used for the construction of sewers.

✚Yonkers, N. Y.—The contract has been awarded to EDWARD J. BROGAN, at $13,325, for constructing a sewer in Worth St.

✚Camden, N. J.—The contract for constructing a brick sewer in Kaighn Ave. has been awarded to AARON WARD, Camden.

✚★Newark, N. J.—The contract for constructing Section 18, southerly portion, of the Main Intercepting Sewer, has been awarded by the Passaic Valley Sewerage Commission to C. A. HASKIN, 16 City Sq., Boston, Mass., at $187,392. Noted Feb. 11.

✚Newark, N. J.—The contract for constructing Section 8, northerly portion, of the Main Intercepting Sewer, has been awarded by the Passaic Valley Sewerage Commission to MASON & HANGER, New York, N. Y., at $344,760. Noted Feb. 18.

Newark, N. J.—Bids will be received until 3:15 p.m., Mar. 11, by the Board of Street and Water Commissioners for constructing sewers in portions of Amsterdam and Clifford St.

Ventnor, N. J. (Atlantic City post office)—(Official)—Bids were received Feb. 15 for constructing a force main, intercepting sewer and alterations to the pumping station as follows: Cantrell Construction Co., $27,075; Atlantic Construction & Supply Co., $29,275; Sutton & Corson, $29,813; Kelley-McFeeley Co., $29,937; John W. Foster, $33,390; Contract B, Disposal Plant: L. H. Henry, Atlantic City, $20,515; E. L. Bader, $22,090; Atlantic Construction & Supply Co., $22,925; Suburban Engineering Co., $23,540; Kelley-McFeeley Co., $24,180; John W. Foster, $31,110; Sutton & Corson, $24,186; Cantrell Construction Co., $31,999. Noted Feb. 4.

Parkesburg, Penn.—Bids will be received until 7:30 p.m., Mar. 8, by George W. Mullen, Secy., for constructing four miles of sanitary sewers and concrete treatment tanks. F. H. Shaw, Lancaster, is Consult. Engr. Noted Dec. 17 and Jan. 7.

✚Philadelphia, Penn.—(Official)—Bids were received Feb. 23 for Contract No. 10, reconstructing sewers in Walnut St. from east of Third St. to west of Sixth St. as follows: (A) Car traffic diverted, (B) car traffic maintained: PEOPLES BROS., Commercial Trust Bldg., Philadelphia, (A) $129,799; (B) $151,593 (awarded contract); Emilio Pascuzzi, (A) $181,040, (B) $210,540; Robert Lombardi (A) $157,000, (B) $195,000; Joseph Perna, (A) $144,000, (B) $160,000; Richard P. Bennis, (A) $219,500, (B) $247,000; and the Keystone State Construction Co., (A) $144,000, (B) $162,000.

Williamsport, Penn.—A resolution has been approved by the Council providing for sewerage work. John B. Otto is City Engr.

York, Penn.—Plans, prepared by George W. Fuller, Engr., New York, N. Y., for the construction of a sewage disposal plant, have been submitted to the City Council. The estimated cost is $99,470.

★Kensington, Md.—(Official)—See item under "Water Supply-Irrigation."

Dayton, Va.—See item under "Water Supply—Irrigation."

Parkersburg, W. Va.—Bids will be received until Mar. 11 by the city for the purchase of $200,000 in bonds, the proceeds of which will be used for the construction of sewers. Allen C. Murdoch is Mayor. Noted Jan. 28.

★Kinston, N. C.—(Official)—See item under "Streets and Roads."

Hawkinsville, Ga.—Bonds for $35,000 have been voted by the citizens. Part of the proceeds will be used for making extensions to the sewer system. Noted Feb. 4.

Okolona, Miss.—Bids will be received until Mar. 19 for the purchase of $58,000 in bonds, the proceeds of which will be used for the construction of a sewer system. Noted Jan. 28.

New Orleans, La.—Bids will be received until Apr. 19 by the Sewerage and Water Board for making additions to pumping plant, Station No. 2, and for building sluice gates for Station No. 2. Plans are on file at the office of the Board.

Sewanee, Tenn.—A report will be submitted by Hunter McDonald, Ch. Engr. of the Nashville, Chattanooga & St. Louis R.R., Nashville, on the construction of a new sewer system.

Cleveland, Ohio—(Official)—Bids will be received until noon, Mar. 18, by A. R. Callow, Comr. of Purchases and Supplies, for constructing a sewer in Dugway Brook.

✚★Lodi, Ohio—(Official)—The contract for constructing a sanitary sewer system and a sewage disposal plant has been awarded to the CENTRAL OHIO CONSTRUCTION CO., 902 Swetland Bldg., Cleveland, Ohio, at $17,570. Noted Feb. 11.

Upper Sandusky, Ohio—Bids will be received until Mar. 19 for constructing a sewage treatment plant and a sewerage system at the Wyandotte County infirmary.

Gary, Ind.—Bids will be received about Apr. 5 for constructing District Sewer No. 24. The estimated cost is $12,263. W. J. Fulton is City Engr.

Flint, Mich.—Press reports state that, at the election held Feb. 17, the citizens voted in favor of issuing $106,726 in bonds for constructing storm and sanitary sewers. Noted Feb. 4.

Traverse City, Mich.—At the April election the citizens will vote on the question of issuing $100,000 in bonds for constructing trunk sewers.

✚Dundee, Ill.—Press reports state that a contract for constructing a sanitary sewer system has been awarded to E. M. SCHEFLOW, Baton Rouge, La., at $8882.

De Pere, Wis.—The City Council has authorized L. Alberts, City Engr., to prepare plans for the construction of a sanitary sewer.

Racine, Wis.—Bids will be received until Mar. 6 by Thompson, Kearney & Myers, Engr., Racine, for constructing the Mt. Pleasant and Somers drainage Districts. The work consists of 47,883 cu.yd. excavation: 1311 ft., 18-in., 800 ft., 15-in.; 3100 ft., 14-in.; 12,908 ft., 12-in.; 8692 ft., 10-in.; 3059 ft., 8-in. and 2435 ft. of 6-in. tile drain.

Mason City, Iowa—Bids will be received until 10 a.m., Mar. 10, by J. H. McEwen, City Clk., for constructing approximately 23,000 lin.ft. of submains and laterals.

Duluth, Minn.—The City Council plans to construct a sewer in Peabody St. The estimated cost of the work is $5783.

✚Eldorado, Kan.—The contract for constructing a sewage purification plant has been awarded to McCOY & TAYLOR, Kansas City, Mo., at $8882. Other bids were: Heany Construction Co., Enid, Okla., $9215; Sharp Bros., Eldorado, Kan., $12,439; Kansas Paving & Construction Co., Kansas City, Mo., $10,281; Tonkawa Construction Co., Kansas City, Mo., $9591; Stack & Curry, Kansas City, Mo., $6998; M. W. Halben, Gary, Ind., $10,820; Everett & Burt, Hutchinson, Kan., $9861; O'Neil Construction Co., Leavenworth, Kan., $10,861. Noted Feb. 4.

Sisseton, S. D.—Bonds for $40,000 have been sold, the proceeds of which will be used for constructing the sewerage system.

Helena, Mont.—The City Council contemplates an expenditure of $40,000 for constructing sewers during 1915. John D. McLeod is City Engr.

Gurdon, Ark.—(Official)—See item under "Water Supply-Irrigation."

Langston, Okla.—See item under "Water Supply—Irrigation."

Tacoma, Wash.—The City Council has authorized W. C. Raleigh, City Engr., to prepare plans for the construction of sanitary sewers in A and B St. The estimated cost is $20,000.

Hayward, Calif.—At the election held Jan. 16, the question of issuing $62,000 in bonds for constructing a sewerage system and sewage disposal plant was defeated. Noted Jan. 7.

✚Los Angeles, Calif.—The contract for constructing a sewer in Vine St. between Melrose Ave. and Santa Monica Blvd. has been awarded to R. A. WATTSON, 4907 Melrose Ave., at $9268.

✚Los Angeles, Calif.—The contract for constructing a sewer in Figueroa St. from Manchester to Florence Ave. has been awarded to JOHN SUTALO, 844 North Broadway, at $14,169.

✚Ocean Beach, Calif.—The contract for constructing a sewer has been awarded to CHARLES H. JULIAN, at $67,220.

Pomona, Calif.—The City Council plans an expenditure of $15,000 as an aid toward establishing a storm drain system.

Toronto, Ont.—The City Council contemplates an expenditure of $106,400 for sewer work.

GARBAGE

Lockport, N. Y.—Upon recommendation of John R. Earl, Mayor, the Board of Aldermen has under consideration the installation of a garbage incinerator to cost about $25,000.

✚Millburn, N. J.—The Township Committee Feb. 23 awarded the contract for garbage removal for a period of one year to JOHN JENKINS, Millburn.

★Wilmington, Del.—(Official)—Bids, including plans and specifications, will be received until Apr. 1, by J. Austin Ellison, Secy., Bd. of Health, for the disposal of garbage for a period of nine years, from June 1, 1915. For details "See advertisement under "Contracts to Be Let."

New Orleans, La.—The Commission Council has sold the franchise for installing illuminated trash boxes at street corners to Miss C. C. Baldwin. Negotiations will soon be opened with manufacturers for receiving bids. Noted Jan. 14.

Cleveland, Ohio—Preliminary plans are being prepared by Frederick H. Betz, Arch., 420 City Hall, for the construction of a one-story garbage collection plant. The estimated cost is $40,000.

Brownood, Tex.—The City Council has ordered an election to be held Mar. 23 to vote on a bond issue of $8000 for the construction of a garbage crematory and septic tank.

STREETS AND ROADS

Boston, Mass.—Bids will be received by the State Highway Commission until Mar. 9 for the construction of 2600 lin.ft. of highway in North Andover. Arthur W. Dean, 15 Ashburton Pl., is Ch. Engr.

✚Medford, Mass.—(Official)—Bids were received Feb. 9 for constructing the Mystic Valley Parkway from Main St. to Mystic Ave. as follows: M. Russo & Son Co., Boston, Mass., $80,424; Joseph McCormick, East Providence, R. I., $77,064; John Landis, Boston, $76,348; George T. Rendle Co. and Rendle & Stoddard, Boston, $75,860; Lawler Bros., Charlestown, Mass., $73,337; Susi and Williams, Boston, $70,610; Michael D. Russo, Boston, $69,362; William R. Farrell, Allston, Mass., $69,332; John P. Cavanagh & Co., Dorchester, $65,780; Peter Bompiani & Co., West Quincy, Mass., $63,511; Middlesex Contracting Co.,

Framingham, Mass., $63,410; Hugh Nawn Contracting Co., Roxbury, $62,809; B. Perine & Co., Ashland, Mass., $57,602; William J. McCarthy Co., Somerville, Mass., $57,448; John Cashman & Sons Co., Boston, Mass., $56,924; William B. Mullen, Belmont, Mass., $55,715; Timothy A. Moynihon, South Hamilton, $55,515; Charles A. Kelley, Somerville, $51,242; Rowe Contracting Co., Brighton, Mass., $51,077; James H. Fannon, Somerville, Mass., $48,743; Richmund F. Hudson, Melrose, $46,818; COLEMAN BROS., Boston, Mass., $43,780 (awarded contract).

Woonsocket, R. I.—(Official)—Bids will be received until 8 p.m., Mar. 11, by Charles D. Southwick, Chn. of the Com. on Streets and Bridges, for paving Pond St.

★**Albany, N. Y.**—(Official)—Bids will be received until 1 p.m., Mar. 23, by Edwin Duffey, State Highway Comr., 55 Lancaster St., for improving highways in various counties. For particulars see advertisement under "Contracts to Be Let."

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 11 a.m., Mar. 10, by L. H. Pounds, Borough Pres., for improving sections of Benson Ave., Coney Island Ave., Ave. U, East Third, East Eighth and East 34th St.; also for 400,000 gal. of asphalt road oil.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids will be received until 3 p.m., Mar. 11, by the Park Board, Municipal Bldg., Borough of Manhattan, for surfacing the City Island Rd. from the Eastern Blvd. to the City Island Rd. from the Eastern Blvd. to the City Island Bridge in Pelham Bay Park.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received until 11 a.m., Mar. 11, by Maurice E. Connolly, Borough Pres., for improving Hopkins Ave. from Grand Ave. to Main St., Chichester Ave. from Van Wyck to Baker Ave., Harvard Ave., from Fulton St. to Hillside Ave., Hughes St. from Doscher Ave. westerly toward Buchman Ave., Thomson Ave. from the viaduct to Diagonal St. and College Point Causeway; also for repair work to pavements in the First, Second, Third, Fourth and Fifth wards.

Oneonta, N. Y.—Bids will be received until Mar. 15 by Frank M. Gurney, City Engr., for 13,700 sq.yd. of bituminous macadam pavement.

✚**Syracuse, N. Y.**—The contract for paving Catharine St. has been awarded to GUY B. DICKINSON, Kirk Bldg., at $11,846.

Bayonne, N. J.—The City Council will soon receive bids for improving a number of streets. Solomon J. Harwi is City Engr. and William P. Lea is City Clk.

Jersey City, N. J.—(Official)—Bids will be received until 2 p.m., Mar. 11, by the Board of Commissioners for improving Gray St. from Mercer to Academy St., and for repairs to asphalt pavements which are not under guarantee from date of contract to Nov. 30, 1915. Michael I. Fagan is City Clk.

Jersey City, N. J.—(Official)—Bids will be received until 3 p.m., Mar. 11, by the Board of Chosen Freeholders, Jersey City, for $150,000 of boulevard repair bonds. Walter O'Mara is Clk.

New Brunswick, N. J.—Bids will be received until Mar. 22 for grading and curbing various streets. F. C. Schneider is City Engr.

Connellsville, Penn.—Bonds for $100,000 have been sold, the proceeds of which will be used for improving streets.

✚**Greenville, Penn.**—The contract for paving College and Columbia Ave. has been awarded to WILLIAM McINTIRE & SONS, Sharon, Penn., at $27,928. Noted Jan. 28.

Portvue, Penn. (McKeesport post office)—An election will be held Mar. 16 to vote on the question of issuing $25,000 in bonds for street improvements.

Reading, Penn.—The City Council contemplates an expenditure of $77,000 for improving streets.

★**Steelton, Penn.—(Official)**—Bids will be received until 7:30 p.m., Mar. 15, by the City Council for subgrading, paving and curbing South Third St. from Highland to Du Pont St., Highland St. from Second to Third St. and Conestoga St. from Front to Christian St. For particulars see advertisement under "Contracts To Be Let."

Uniontown, Penn.—(Official)—Bids will be received until noon, Mar. 16, by Harry Kisinger, Fayette County Controller, for constructing highways in North Union, Perry and Franklin Townships.

✚**Baltimore, Md.**—The contract for paving Fayette St. from Charles to Paca St. has been awarded to the GEORGE LONG CONTRACTING CO., at $31,286.

★**Baltimore, Md.**—(Official)—Bids will be received until noon, Mar. 16, by the State Roads Commission, for oiling seven sections of State Highway. For particulars see advertisement under "Contracts to Be Let."

Cumberland, Md.—Press reports state that bids will be received until Mar. 23 for the sale of $150,000 in bonds for paving. Thomas W. Koon is Mayor.

Bland, Va.—At a recent election the question of issuing $30,000 in bonds for road and bridge improvements was defeated. Noted Dec. 31.

Boydton, Va.—At a recent election the citizens voted in favor of issuing $30,000 in bonds, the proceeds of which will be used for constructing roads in the Bluestone Road District. Noted Feb. 4.

★**Kinston, N. C.**—(Official)—Bids will be received until 5 p.m., Mar. 23, by the City Council for making street improvements and for sewerage improvements. For particulars see details under "Contracts To Be Let."

Quaker Gap, N. C.—At the election held Jan. 19, the question of issuing $50,000 in bonds for constructing roads was defeated. Noted Dec. 31.

Wilmington, N. C.—(Official)—All bids received Feb. 20 by L. W. Moore, Comr. of New Hanover County, for constructing 7½ miles of clay-gravel roads were rejected. J. L. Becton, Wilmington, is Engr. Noted Feb. 11.

Anderson, S. C.—An election will be held Mar. 30 to vote on the question of issuing $750,000 in bonds, the proceeds of which will be used for constructing roads in Anderson County. J. S. Fowler is Chn. Highway Comn.

Orangeburg, S. C.—Bids received Feb. 12 by the City Council for grading and paving Courthouse Sq., Church and South Broughton St. were rejected. The work will be done by day labor. Noted Feb. 11.

Atlanta, Ga.—The City Council contemplates an expenditure of $65,000 for improving various streets.

★**Waycross, Ga.**—(Official)—Bids will be received until 7:30 p.m., Mar. 16, by Mayor and Board of Aldermen for constructing approximately 11,000 sq.yd. of brick pavement on Carswell Ave. A. C. Lowther is City Clk. For particulars see advertisement under "Contracts to Be Let."

Brooksville, Fla.—Bids will be received until Mar. 6 by the Board of County Commissioners for constructing hard surfaced highways. M. H. Snow is County Clk. Noted Jan. 7.

Jacksonville, Fla.—(Official)—Bids will be received until 8 p.m., Mar. 8, by the Committee on Public Works of the Board of Bond Trustees for improving various streets. S. C. Harrison, Jr., is Chn. of the Com. on Pub. Wks.

Jacksonville, Fla.—Bids will be received until Mar. 25 by the Commissioners of Duval County for hard-surfacing various roads with brick or asphalt macadam.

✚**Sarasota, Fla.**—The contract for constructing 1⅜ miles of sidewalks has been awarded to GEORGE M. McALPIN, Sarasota.

Vernon, Ala.—The citizens of Lamar County will vote Mar. 23 on the question of issuing $150,000 in bonds, the proceeds of which will be used for road construction.

Hazlehurst, Miss.—At a recent election the citizens of Copiah County voted in favor of issuing $150,000 in bonds, the proceeds of which will be used for constructing roads.

Hahnville, La.—The citizens of St. Charles Parish Road District No. 2 will vote Mar. 9 on the question of issuing $70,000 in bonds for constructing a gravel road.

✚**Mansfield, La.**—A contract for constructing 4½ miles of concrete sidewalk has been awarded to C. E. SODERSTROM, Charleston, Mo.

New Orleans, La.—(Official)—Bids will be received until noon, Mar. 20, by the Highway Department of the Board of State Engineers, Room 104, New Orleans Court Bldg., for constructing about 26 miles of highway from Covington to Slidell, St. Tammany Parish. W. E. Atkinson is State Highway Engr.

✚**Lexington, Ky.**—A contract for repairing and oiling 31 miles of macadam streets during 1915 has been awarded to the CAREY-REED CO., Lexington, at $8246.

Louisville, Ky.—Bids will be received until Mar. 9 by the Board of Public Works for improving Johnson, Clark and Hill St. at an estimated cost of $29,500.

Morgantown, Ky.—Press reports state that the Butler County Fiscal Court contemplates an expenditure of $10,000 for constructing roads.

Berlin Heights, Ohio—Bonds for $30,000 have been sold, the proceeds of which will be used for improving roads. Noted Feb. 11.

✚**Canton, Ohio**—(Official)—Contracts have been awarded for improving the Alliance-Bolton Rd. to the HIGHWAY CONSTRUCTION CO., Elyria, Ohio, $10,602; Magnolia-Sparta Rd., to R. C. ROUSH, Canton, Ohia, $33,585; Massillon-Millersburg Rd., to P. DIEFFENBACHER & SONS, Massillon, Ohio, $68,992; Navarre-Justus Rd., R. C. ROUSCH, Canton, Ohio, $24,465. Noted Feb. 18.

Cleveland, Ohio—(Official)—Bids will be received until 10 a.m., Mar. 10, by the Board of Commissioners of Cuyahoga County for improving Washington-State St. in Chagrin Falls Township. E. G. Krause is Clk. of Bd. of Comrs.

Columbus, Ohio—(Official)—Bids will be received until 2 p.m., Mar. 12, by James R. Marker, State Highway Comr., for improving Section K of the Cleveland-Sandusky Rd., in Erie County. The estimated cost is $14,155.

✚**Fremont, Ohio**—The contract for paving Clover St. has been awarded to the MODERN CONSTRUCTION CO., at $23,430.

✚**Marysville, Ohio**—(Official)—The contract for improving Houseman Rd. has been awarded to E. C. CODY, New Dover, Ohio, at $5349. Other bids were: C. O. Herd, $5307; Carey & Mulvain, $5382; Graham & Koffroth, $5360. Noted Feb. 18.

Middletown, Ohio—Bids will be received until Mar. 25 by the City Auditor for the sale of $25,510 in bonds, the proceeds of which will be used for improving various streets.

✚**Toledo, Ohio**—The contract for paving Moore St. from Lagrange to Stickney St. has been awarded to H. P. STREICHER & CO., at $22,488.

✚**Troy, Ohio**—The contract for paving Elm St. has been awarded to YOUNT & JACKSON, Dayton, Ohio, at $15,000.

Youngstown, Ohio—The City Council contemplates widening and paving Elm St. at an estimated cost of $50,000.

Zanesville, Ohio—The City Council contemplates an expenditure of $27,000 for paving Market, Third, Fourth and Fifth St.

Crown Point, Ind.—(Official)—Bids will be received until 1 p.m., Mar. 12, by the Commissioners of Lake County, for constructing gravel roads in North and Calumet Townships. E. Simon is County Audr.

✚**Lebanon, Ind.**—The contract for paving North East St. from Washington St. to the Prairie Creek bridge has been awarded to PATRICK SHAHAN & SON, at $17,060.

Terre Haute, Ind.—(Official)—Bids will be received until 11 a.m., Mar. 27, by the Commissioners of Vigo County for constructing two gravel roads in Lost Creek and Pierson Townships. Nathan G. Wallace is County Audr.

Vincennes, Ind.—(Official)—Bids will be received by the Board of Public Works, until 4 p.m., Mar. 15, for constructing 23,000 sq.yd. of pavements. E. G. Meyer is City Clk.

✚**Detroit, Mich.**—(Official)—Contracts have been awarded by the Department of Public Works for paving Dix Ave. to F. PORATH & SON, at $7925; Maryland Ave., to J. PORATH, at $7315; Kirby Ave. to the DETROIT ASPHALT PAVING CO., at $4994.

Saginaw, Mich.—At a recent election the citizens voted in favor of issuing $30,000 in bonds for constructing sidewalks.

✚Rockford, Ill.—(Official)—Bids will be received until 11 a.m., Mar. 15, by W. W. Bennett, Pres. of the Bd. of Local Imp., for paving with brick portions of Melrose and Clinton St., and for macadamizing portions of Prospect St. For particulars see advertisement under "Contracts to Be Let."

✚Rock Island, Ill.—The contract for paving 18th St. with brick has been awarded to the TRI-CITY CONSTRUCTION CO., Davenport, at approximately $25,000. Noted Jan. 7.

✚Springfield, Ill.—(Official)—The Illinois State Highway Commission awarded contracts, Feb. 23, for highway work as follows: Cook County, Section G, WALTER & WINDES, Glencoe, $27,069; Madison County, Section A, CHARLES H. DEGENHARDT, Alton, $29,982; Winnebago County, Section B, CONNELLY & DUNNING, Chicago, $14,400; Winnebago County, Section A, WALTER & WINDES, Glencoe, $10,947; Alexander County, Section A, BLAND & FITZGERALD, Cairo, $5448; Whiteside County, Sections C and B, WALTER & WINDES, Glencoe, $10,887. Noted Feb. 18.

Springfield, Ill.—(Official)—Bids will be received until 11 a.m., Mar. 10, by the State Highway Commission for road construction as follows: Monroe County, Route 1, Section A, 1900 lin.ft. of concrete, estimated cost, $2979; Union County, Route 1, Section A, 3200 lin.ft. of gravel, estimated cost, $3130; Bureau County, Route 7, Section A, 4000 lin.ft. of concrete, estimated cost, $8129; Bureau County, Route 4, Section B, 3928 lin.ft. of concrete, estimated cost, $7826. All cement to be furnished by the State in all counties except in Union County, Section A.

Fond du Lac, Wis.—(Official)—Bids will be received until 3 p.m., Mar. 17, by the Board of Public Works for improving a number of streets. J. F. Hohensee is City Clk.

New London, Wis.—Bids will be received until Mar. 16 for constructing 1½ miles of road leading into the city. The approximate cost is $14,000. C. J. Thompson is City Clk.

Richland Center, Wis.—Bids will be received until 4 p.m., Mar. 19, by Rueben Sutton, City Clk., for paving various streets with reinforced concrete, tar macadam, asphalt and water-bound macadam.

Sparta, Wis.—Bids will be received until Mar. 17 by E. G. Kowitz, Chn. of the St. Com., for 41,333 sq.yd. of brick paving.

Superior, Wis.—The contract for paving Tower Ave. from First to Third St. has been awarded to the RUSSELL CONSTRUCTION CO., at $5980.

✚Belle Plaine, Iowa—A contract for constructing 32,500 sq.yd. concrete or asphaltic concrete pavement and 23,000 ft. of concrete curb has been awarded to the WIDELL CO., Mankato, Minn., at $54,500. Noted Feb. 4.

✚Carroll, Iowa—A contract for 33,000 sq.yd. of asphalt paving has been awarded to A. JAICKS CO., Kansas City, Mo., at $58,702. Noted Feb. 4.

✚★Emmetsburg, Iowa—A contract for constructing 40,000 sq.yd. of paving has been awarded to ZITTERELL & SULLIVAN, Webster City, Iowa, at $101,022. Noted Jan. 28.

✚Mason City, Iowa—(Official)—A contract for sheet asphalt paving has been awarded to the BRYANT ASPHALT PAVING CO., Waterloo, Iowa, at $118,000. Noted Feb. 18.

✚Duluth, Minn.—The contract for paving lower Tower Ave. has been awarded to the RUSSELL CONSTRUCTION CO., at $5980.

✚Ivanhoe, Minn.—(Official)—A contract for grading Road No. 1 has been awarded to LAMOREAUX BROS. CO., Omaha, Neb., at $9583.

Winona, Minn.—(Official)—Bids will be received until 2 p.m., Mar. 23, by C. W. Anding, County Audr., for constructing state rural highways in Winona County.

Topeka, Kan.—Press reports state the City Council contemplates paving a number of streets with brick and asphalt.

Butte, Mont.—Bids will be received about Mar. 10 for paving a portion of Arizona St. J. C. Driscoll is City Clk.

Missoula, Mont.—Bids will be received until Mar. 10 by the City Council for paving in Improvement District No. 33.

St. Louis, Mo.—The Board of Public Service contemplates paving Florissant Ave. from Carrie to Bernays Ave. at an estimated cost of $101,000.

Ballinger, Tex.—An election will be held to vote on the question of issuing $60,000 and $90,000 in bonds for road construction.

Ft. Worth, Tex.—Plans have been prepared for the construction of 3½ miles of pavement, at an estimated cost of $30,000.

Taylor, Tex.—An election will be held Mar. 20 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for paving streets. Noted Feb. 25.

✚Wharton, Tex.—A contract for resurfacing 100,000 yd. gravel road has been awarded by the Commissioners' Court of Wharton County to the CALAHAN CONSTRUCTION CO.

Denver, Colo.—The City Council plans to repave 15th St. from Larimer to Broadway. The estimated cost is $90,000. H. F. Meryweather is City Engr.

✚Pueblo, Colo.—A contract for constructing 8½ miles of gravel macadam pavement in the Mineral Palace Paving District has been awarded to the ANDERSON-HAMILL CONSTRUCTION CO., at $137,263. Noted Jan. 7 and Feb. 11.

Everett, Wash.—Bids will be received until Mar. 15 by Mae Weatherbee, County Audr., for constructing 2½ miles of Beverly Park Highway. The estimated cost is $16,000.

✚Portland, Ore.—The contract for improving Oregon and East 23d St. with gravel bitulithic has been awarded to GIEBISCH & JOPLIN, at $10,199.

Benicia, Calif.—Bids will be received until 8 p.m., Mar. 9, by the Board of Trustees for the sale of $10,000 in bonds for improving and constructing roads.

✚East San Diego, Calif.—The contract for improving Cabrillo Ave., Klauber, Castle, Howard, Clark and Center St. has been awarded to OLAF NELSON, at $17,595.

Santa Barbara, Calif.—(Official)—Bids will be received about Apr. 1 for the improvement of Moreno Rd., Grand Ave. and Valerio St. A. B. Cook is City Engr.

✚Santa Barbara, Calif.—(Official)—The contract for improving Garden, Los Olivos and New Mission St. has been awarded to F. R. RITCHIE & CO., at approximately $24,200.

✚Santa Barbara, Calif—(Official)—The contract for improving Mission and Hollister St. has been awarded to F. R. RITCHIE & CO., at approximately $50,650.

Ladysmith, B. C.—The City Council contemplates an expenditure of $25,000 for street paving.

INDUSTRIAL WORKS

Ansonia, Conn.—M. A. Crossman, Main St., is planning to construct four two-story storage buildings.

✚Barnard, N. Y.—The Pennsylvania Feldspar Co., Franklin Bank Bldg., Philadelphia, Penn., has awarded the general contract to the GORSLINE & SWAN CONSTRUCTION CO., East Ave. and Chestnut St., Rochester, for the construction of a three-story, 70x70-ft. mill. The AMERICAN BRIDGE CO. was awarded the contract for the steel work. Noted under Rochester, N. Y., Dec. 24.

Kingston, N. Y.—Gerald W. Betz, Arch., 51 John St., has prepared plans for the construction of a one-story, 50x120-ft. factory for the Wemlinger Steel Piling Co., 11 Broadway, New York. The estimated cost is $40,000.

Port Chester, N. Y.—Russell G. Cory, Consult. Engr., 39 Cortland St., New York, is preparing plans for the construction of a three-story addition to the plant of the Simons Mfg. Co. Plans are also being prepared for an additional story to its present building. The estimated cost is $25,000.

Camden, N. J.—Plans are being prepared by Ballinger & Perrot, Arch., 1328 Broadway, New York, N. Y., for the construction of a six-story, 75x200-ft. factory for the Victor Talking Machine Co.

✚Philadelphia, Penn.—LAM BUILDING CO., 1001 Wood St., has been awarded the contract for the construction of a five-story, 60x100-ft. store and warehouse at Second and Church St. for Harry Fliegelman, 36 North Second St. Estimated cost, $40,000.

Philadelphia, Penn.—Bids will soon be received for the construction of a two-story, 50x100-ft. warehouse on 35th and Hastings St. for the Philadelphia Rendering Co. Alfred Weeks, 1433 Chestnut St., is Engr. Noted Feb. 25.

Portvue, Penn.—(McKeesport post office)—The McKeesport Tin Plate Co. will soon start the construction of 20 tin-plate mills. The estimated cost is $1,800,000. Noted under McKeesport, Penn., Aug. 6.

Shenandoah, Penn.—Bids will be received about Mar. 10 by Koelle, Speth Co., Arch., 26th and Oxford St., Philadelphia, for the construction of a storage house for the Columbia Brewing Co. Noted Feb. 25.

South Bethlehem, Penn.—The Bethlehem Steel Co. has purchased a site adjoining its office building. The company plans to construct an addition to its plant. E. G. Grace is Pres.

Baltimore, Md.—Plans are being prepared by C. B. Comstock, Philadelphia, Penn., for the construction of a two-story, 44x68-ft. storage house on Eastern Ave. for William Schluderberg & Son, Fourth and Bank St., Baltimore. The estimated cost is $40,000.

Baltimore, Md.—Plans are being prepared for the construction of a three-story, 60x120-ft. garage on St. Paul St. near Mt. Royal Ave. for Walter Scott, 1127 West North Ave.

Baltimore, Md.—Bids will soon be received by the City Dairy Co. for the construction of a $750,000 plant at Remington Ave. and 29th St. The main building will be 103x320 ft. Other improvements include a 63x200-ft. garage and repair shop, a 80x105-ft. power plant and a 32x102-ft. stable. Joseph Evans Sperry, Arch., 409 Calvert Bldg., has prepared plans. Noted June 25 and July 9.

Washington, D. C.—Plans are being prepared by C. A. Didden & Son, Arch., Corcoran Bldg., for the construction of a seven-story, 40x100-ft. reinforced-concrete warehouse at 734 10th St., N. W., for Fries, Beall & Sharp Co., 522 10th St.

City Point, Va.—The Du Pont de Nemours Powder Co., Wilmington, Del., will spend between $5,000,000 and $6,000,000 for the construction of a plant at City Point. It will be eight times as large as originally planned. A. Felix Du Pont, Wilmington, Del., is in charge of the work.

Martinsburg, W. Va.—The Municipal Shale Brick & Block Co. was recently incorporated with a capital of $250,000. The company plans to construct a plant having a daily capacity of 60,000 paving blocks. Estimated cost, $150,000.

Charlotte, N. C.—The Ford Motor Co., Detroit, Mich., will construct a plant to cost about $200,000. James E. Couzens is Secy.

✚Augusta, Ga.—The contract for the construction of a warehouse on Reynolds St. for Pope & Fleming, Inc., has been awarded to T. O. BROWN & SON. The estimated cost is $10,000. G. Lloyd Preacher is Arch.

Macon, Ga.—The Bibb Mfg. Co. plans to make an expenditure of $60,000 for improvements to its Mill No. 1, East Macon.

Palmetto, Fla.—Bids will be received until Mar. 15 for the construction of a 40x100-ft. and a 80x168-ft. fruit-packing plant for the Manatee Fruit Co. W. L. Preston is Pres. and F. D. Waite is Mgr.

Birmingham, Ala.—Plans have been prepared by W. T. Warren, Empire Bldg., for the construction of a two-story, 75x100-ft. factory for the Cruse-Crawford Mfg. Co.

Cleveland, Tenn.—The Cleveland Chair Co. will construct a factory to cost about $30,000.

Newport, Ky.—The Newport Business Men's Club contemplates the construction of a fireproof, concrete factory. The estimated cost is $40,000. W. C. Botts is Pres.

Cleveland, Ohio—Plans are being prepared by Ernest McGeorge, Arch., Leader News Bldg., for the construction of a fireproof plant on East 131st St. and St. Clair Ave., N. E., for the Elyria Iron & Steel Co., Elyria. Estimated cost, $75,000. Henry Wick, Elyria, is Pres. and T. Bernard, Elyria, is Secy.

Cleveland, Ohio—Plans are being prepared by Briggs & Nelson, Arch., 669 Rose Bldg., for the construction of a one-story, 100x400 ft. plant for the Cleveland Seating Co. Estimated cost, $100,000. Noted Sept. 3.

Fostoria, Ohio—The Fostoria Packing Co. plans to construct a packing house. A. J. McCrea, 3022 West 14th St., Cleveland, is Chn. of Bldg. Com.

Detroit, Mich.—R. C. Gernt, Arch., 15 Campau Bldg., is preparing plans for the construction of a four-story, 100x158-ft. factory for A. Wegener & Sons, 387 Riopelle St. The estimated cost is $50,000.

Chicago, Ill.—Paul Gerhardt, Arch., 64 West Randolph St., is preparing plans for the construction of a fireproof building at 41st St. and Lowe Ave. for T. E. Murray. The plant will be used for the manufacture and storage of serums and antitoxins. The estimated cost is $150,000.

Chicago, Ill.—The Oppenheimer Casing Co. will construct a two-story factory at West 36th near Morgan St. The estimated cost is $45,000.

✚**Milwaukee, Wis.**—The WISCONSIN CEMENT CONSTRUCTION CO., 1000 Humboldt Ave., has been awarded the contract for the construction of a factory and warehouse for Seeboth Bros., 111 Reed St. The estimated cost is $50,000. Noted Jan. 28 and Feb. 11.

Milwaukee, Wis.—Bids will soon be received for the construction of a six-story addition to the plant of the B. J. Johnson Soap Co., Fourth and Fowler St. The estimated cost is $150,000. Lockwood-Greene & Co., 38 South Dearborn St., Chicago, Ill., is Arch. Noted Feb. 25.

Duluth, Minn.—The Duluth Ice Co. is planning the construction of an ice manufacturing plant at Buchanan St. and St. Croix Ave. The estimated cost is $30,000.

St. Paul, Minn.—C. A. Hausler, City Arch., is preparing plans for the construction of a municipal garage. The estimated cost is $40,000.

Omaha, Neb.—The Emerson-Brantingham Co. will construct a warehouse. The estimated cost is $250,000.

Kansas City, Mo.—The Ridenour-Baker Grocery Co., 933 Mulberry St., will construct an eight- or nine-story, 120x180-ft. concrete warehouse and factory on St. Louis Ave. and Mulberry St. West Bottom. The estimated cost is $250,000. McKecknie & Trask is Arch.

Ballinger, Tex.—The Texas Compress Co. will rebuild its plant which was recently destroyed by fire with a loss of $300,000.

Seattle, Wash.—H. D. Stewart, American Bank Bldg., at $32,325, was the lowest bidder for the construction of a one-story storage building at Whatcom Ave. and Spokane St. for the Port Commission. Noted Dec. 31.

Wenatchee, Wash.—The Wenatchee Apple & Warehouse Co., recently organized, will construct a warehouse. It will be three stories, 100x100 ft., and cost about $30,000. F. C. Lemon, Wenatchee, and F. W. Keen, Seattle, are interested.

East San Pedro, Calif.—Eisen & Son, Arch., Wilcox Bldg., Los Angeles, has prepared plans for the construction of a 70x235-ft. packing plant and a 65x150-ft. warehouse for the Southern California Fish Co.

Longbeach, Calif.—The Chemical Pigment Co. was recently incorporated with a capital of $1,000,000. The company plans to construct a plant for the manufacture of white lead. Estimated cost, $250,000. W. H. Covert, 810 Walnut Ave., is interested.

Sebastopol, Calif.—The Sebastopol Berry Growers' Association plans to rebuild its warehouse destroyed by fire. It will be 60x224 ft. with a 60x100-ft. ell. Other improvements include a precooling plant to cost $10,000, a cannery and a packing house.

FEDERAL GOVERNMENT WORK

★✚**Dredging**—Boston, Mass.—The contract for dredging in Chelsea Creek, Boston Harbor, has been awarded to the MORRIS & CUMINGS DREDGING CO., 17 State St., New York, N. Y., at $35,280. Noted Jan. 21.

★**Dredging**—Providence, R. I.—Bids will be received until noon, Mar. 30, by Col. John Willis, U. S. Engineer Office, Newport, R. I., for dredging in Providence Harbor, R. I.

★**Dredging**—New York, N. Y.—The following bids were received for dredging in Portchester Harbor, price per cu.yd. scow measurement: John H. Seely, 31c.; John H. Gerrish, 36.6c.; Marathon Dredging Co., 39c. Noted Feb. 18.

Repairs to Vessel—New York, N. Y.—(Borough of Richmond)—Bids will be received by J. T. Yates, Lighthouse Inspector, Tompkinsville, until 2 p.m., Mar. 13, for making repairs to light vessel No. 54.

★**Cement**—New York, N. Y.—The lowest bid submitted for furnishing and delivering 32,000 bbl. of American portland cement was that of the Alpha Portland Cement Co., at $1.25 per bbl. Noted Feb. 18.

★**Dredging**—New Jersey—The following are the bids received for dredging in Woodbridge Creek, Raritan Bay and Shrewsbury River, N. J., prices per cu.yd. scow measurement. In Raritan Bay, Morris & Cumings Dredging Co., 17 State St., New York, N. Y., 11.82c.; William Beard & Co., 22.5c.; R. G. Packard Co., 16.84c.; In Woodbridge Creek, John & Joseph McSpirit, 40c.; Bay Dredging & Contracting Co., 215 Montague St., New York, N. Y. (Borough of Brooklyn), 35c. Noted Feb. 11.

✚**Lumber**—Philadelphia, Penn.—The contract for furnishing 100,000 ft. of No. 3—barn grade—white pine or cedar, has been awarded to G. ELIAS & BRO., Buffalo, N. Y., at $18.75 per M.

Sewers—Washington, D. C.—Bids were received Feb. 18, by the Commissioners of the District of Columbia for the construction of sewers in the District, involving the construction of about 3500 lin.ft. of trunk sewers, 6 ft. 6-in. span to 7-ft. span, as follows: (1) James Ferry & Son, Baltimore, Md., (2) George Hyman, Washington, D. C., (4) William F. Cush, Washington, D. C., (5) Martin & Miller, Caldwell, N. J., (3) Warren F. Brenizer, Washington, D. C., (6) James Sperritt, Inc., Washington, D. C.

Nailor's Run Trunk Sewer, Section 1, sewer on piling and timber foundation.

	(1)	(2)	(3)	(4)	(5)
Ordinary excavation, 50 cu.yd.	$2.00	$0.50	$2.00	$1.50	$1.00
Piling, 31,000 lin.ft.	0.30	0.17½	0.15	0.23	0.17
Lumber, 72,500 ft. B.m.	40.00	44.00	36.00	55.00	41.00
Concrete invert masonry "B", 785 cu.yd.	7.00	7.50	6.50	8.50	6.25
Concrete arch masonry, "B", 700 cu.yd.	8.00	7.50	6.50	9.75	6.75
Vitrified brick masonry, 95 cu.yd.	25.00	22.00	21.00	25.00	20.00
Sewer brick masonry, 5 cu.yd.	18.00	16.00	14.00	16.00	12.00

Section 2, sewer in excavation.

	(1)	(2)	(3)	(4)	(5)
Ordinary excavation, 250 cu.yd.	$1.50	$0.50	$0.40	$1.50	$0.75
Concrete invert masonry, "B", 230 cu.yd.	7.00	7.50	6.50	8.50	6.25
Concrete arch masonry, "B", 165 cu.yd.	8.00	7.50	6.50	9.75	6.75
Vitrified brick masonry, 25 cu.yd.	25.00	22.00	21.00	25.00	20.00
Sewer brick masonry, 5 cu.yd.	18.00	16.00	14.00	16.00	12.00

Hawes Run Trunk Sewer, Section 1, sewer on piling and timber foundation.

	(2)	(3)	(5)	(6)
Ordinary excavation, 200 cu.yd.	$0.50	$1.00	$1.00	$2.00
Piling, 32,200 lin.ft.	0.17½	0.15	0.17	0.30
Lumber, 76,800 ft., B.m.	44.00	36.00	41.00	40.00
Concrete invert masonry, "B", 825 cu.yd.	8.25	6.60	6.25	7.00
Concrete arch masonry, "B", 735 cu.yd.	8.25	6.60	6.75	8.00
Vitrified brick masonry, 100 cu.yd.	25.00	26.00	20.00	25.00
Sewer brick masonry, 5 cu.yd.	19.00	14.00	10.00	18.00

Section 2, sewer in excavation.

Ordinary excavation, 450 cu.yd.	$0.50	$0.40	$0.65	$1.50
Concrete invert masonry "B", 323 cu.yd.	8.25	6.60	6.50	7.00
Concrete arch masonry, "B", 230 cu.yd.	8.25	6.60	6.90	8.00
Sewer brick masonry, 5 cu.yd.	19.00	14.00	12.00	18.00
Vitrified brick masonry, 35 cu.yd.	25.00	22.00	20.00	25.00

Burnt Bridge Run Trunk Sewer, Section 1, sewer on piling and timber foundation.

	(2)	(3)	(4)	(5)	(6)
Ordinary excavation, 50 cu.yd.	$0.75	$2.00	$1.56	$1.00	$2.00
Piling, 13,900 lin.ft.	0.17½	0.15	0.23	0.17	0.30
Lumber, 32,000 ft. B.m.	44.00	36.00	53.00	43.00	40.00
Concrete invert masonry, 350 cu.yd	6.50	6.50	6.75	6.50	7.00
Concrete arch masonry, 300 cu.yd.	6.50	5.50	6.50	7.00	8.00
Vitrified brick masonry, 40 cu.yd.	19.00	21.00	21.00	21.00	25.00
Sewer brick masonry, 5 cu.yd.	14.00	14.00	14.00	12.00	18.00
Section 2, sewer in excavation:					
Ordinary excavation, 1250 cu.yd.	$0.50	$0.50	$1.25	$1.00	$1.50
Concrete invert masonry, "B", 360 cu.yd.	6.50	6.50	6.75	6.75	7.00
Concrete arch masonry, "B", 215 cu.yd.	6.50	6.50	7.75	7.00	8.00
Vitrified brick masonry, 40 cu.yd.	19.00	21.00	21.00	20.00	25.00
Sewer brick masonry, 5 cu.yd.	14.00	12.00	14.00	12.00	18.00

Remodeling Toilet Rooms—Washington, D. C.—Bids were received Feb. 15 by the Superintendent of the State, War and Navy Bldg., Washington, D. C., for remodeling the toilet rooms in the above building, (a) using Riverside, Vt., marble, (b) using Mar-villa, Beaver Dam marble, (c) using Italian marble, as follows: Standard Engineering Co., Washington, D. C., (a) $82,825, (b) $80,065, (c) $88,425; Eberly Bros., Washington, D. C., (a) $90,000, (b) $87,600, (c) $95,070; Bullman Bros., Philadelphia, Penn., (a) $104,774, (b) $99,274, (c) $106,674; Richardson & Burgess, Washington, D. C., (a) $105,370, (b) $105,370, (c) $110,110; Newport Contracting & Engineering Co., Newport News, Va., (a) $84,490, (b) $82,220, (c) $90,000; W. G. Cornell Co., Washington, D. C., (a) $84,985, (b) $82,780, (c) $89,800; P. F. Gormley Co., Washington, D. C., (a) $95,254, (b) $92,984, (c) $99,211; Hanley-Casey Mechanical Equipment Co., Chicago, Ill., (a) $83,890, (b) $82,700, (c) $89,920; W. E. Mooney, Washington, D. C., (a) $91,695, (b) $89,295, (c) $96,785; Boyle-Robertson Construction Co., Washington, D. C., (a) $92,981, (b) $91,941, (c) $96,981; Frank L. Wagner, Washington, D. C., (a) and (b) $115,175, (c) $120,294.

Wharves—Washington, D. C.—Bids were received as follows on Feb. 11, by the Commissioners of the District of Columbia for constructing three new wharves with reinforced-concrete decks, to take the place of three old wharves on Water St., between 11th and 12th St., S. W., the work to include the necessary excavation, dredging and the construction of a concrete revetment wall supported on timber piles. (a) ordinary excavation, 2050 cu.yd.; (b) dredging, 16,600 cu.yd.; (c) revetment wall, 546 lin.ft., comprising 411 bearing piles, 39,600 ft. b.m., lumber, 685 Class "B" concrete; (d) bid A, wharves with reinforced-concrete decks supported directly on timber pile bents; (e) bid B, wharves with reinforced-concrete decks supported by concrete arched walls, the arched walls being supported by timber piles; (f) bid C, upon bidder's design, wharves with reinforced-concrete decks supported on concrete piles: Bid A comprises the following quantities: 536 bearing piles, 69 oak fender piles, 39 oak cluster piles, 94,600 ft. b.m., lumber, 725 cu.yd., Class A concrete, 68,800 lb. reinforcing steel, 19,280 lb. structural steel channels, 26 c.-i. mooring cleats, 24,000 lb. hardware. Bid B comprises the following quantities: 411 bearing piles, the same amount as above of oak fender and cluster piles, 43,200 ft. b.m., lumber, 965 cu.yd., Class A concrete, 95,000 lb. reinforcing steel, 965 lin.ft., curb protector, 26 c.-i. mooring cleats, and 8200 lb. hardware. James L. Marshall, McLachlen Bldg., Washington, D. C., (a) 68c.; (b) 68c.; (c) no bid; (d) $52,462; (e) $53,313; Penn Bridge Co., Washington, D. C., (a) 49c.; (b) 48c.; (c) $24; (d) no bid; (e) $22,593; Interstate Construction Co., 1170 Broadway, New York, (a) 80c.; (b) 80c.; (c) $17.50; (d) $30,297; (e) $27,653; (f) $29,300; Dorsey & Miller, Corcoran Bldg., Washington, D. C., (a) 54c.; (b) 54c.; (c) $18.42; (d) $21,900; (e) $25,000; (f) $39,000; Arthur L. Smith & Co., Woodward Bldg., Washington, D. C., (a) 75c.; (b) $1.50; (c)

$19.90; (d) $48,375; (e) $49,100; W. D. Murray & Co., Inc., Norfolk, Va., (a) 49½c.; (b) 49½c.; (c) $19.73; (d) $21,586; (e) $21,791; Snare & Triest Co., 233 Broadway, New York, (a) 60c.; (b) 80c.; (c) $21; (d) $25,700; (e) $26,600; Clark & Winston Co., 10th and Water St., Washington, D. C., (a) 73c.; (b) 73c.; (c) $19.44; (d) $22,628; (e) $24,610; Frederick Drew Co., Inc., Woodward Bldg., Washington, D. C., (a) 70c.; (b) 70c.; (c) $18; (d) $24,558; (e) $26,141; Alsop & Pierce, Newport News, Va., (a) 40c.; (b) 62c.; (c) $21.79; (d) $23,473; (e) $22,457; Sanford & Brookes Co., Baltimore, Md., (a) $3.83; (b) 30c.; (c) $20.70; (d) $26,220; (e) $26,695.

Public Buildings—Washington, D. C.—The following appropriations are incorporated in the Sundry Civil Appropriations Bill, covering the year ending June 30, 1916.

For commencement: Aberdeen, Wash., $1000; Alexandria, La. (extension), $40,000; Alliance, Neb., $1000; Anoko, Minn., $10,000; Antigo, Wis., $1000; Ashland, Ky., $30,000; Attleboro, Mass., $30,000; Aurora, Neb., $1000; Bakersfield, Calif., $1000; Barnesville, Ga., $1000; Bartow, Fla., $1000; Belton, Tex., $10,000; Buffalo, Wyo., $1000; Burlington, N. C., $1000; Caribou, Maine, $1000; Chadron, Neb., $1000; Charles City, Iowa. $1000; Chattanooga, Tenn. (extension), $30,000; Columbia, S. C., $1000; East Orange, N. J., $1000; East St. Louis, Ill., $95,000; Ellensburg, Wash., $10,000; Elyria, Ohio, $20,000; Evansville, Ind. (extension), $75,000; Falls City, Neb., $10,000; Globe, Ariz., $1000; Greenwich, Conn., $50,000; Grinnell, Iowa, $1000; Hackensack, N. J., $1000; Hornell, N. Y., $30,000; Humboldt, Tenn., $1000; Huntington, Ind., $10,000; Huntington, W.Va. (extension), $100,000; Jasper, Ala., $1000; Kalispell, Mont., $15,000; Kansas City, Mo. (extension), $250,000; Kirksville, Mo., $30,000; Little Falls, Minn., $10,000; Madison, Wis., $200,000; Marion, S. C., $1000; Maryville, Tenn., $10,000; McComb, Miss., $1000; Merrill, Wis., $35,000; Middletown, Conn., $1000; Middletown, Ohio, $50,000; Minden, La., $20,000; Missoula, Mont. (extension), $50,000; Moberly, Mo. (extension), $20,000; Montevideo, Minn., $1000; Nacogdoches, Tex., $20,000; Nashville, Tenn. (extension), $200,000; Naugatuck, Conn., $25,000; Navasota, Tex., $15,000; Neenah, Wis., $1000; New Braunfels, Tex., $20,000; Oklahoma City, Okla. (extension), $111,000; Pulaski, Va., $1000; Redfield, S. D., $1000; Ridgway, Penn., $25,000; Rockville, Conn., $1000; Roseburg, Ore., $1000; Rumford, Maine, $1000; St. Louis, Mo., subtreasury, $50,000; Salamanca, N. Y., $20,000; Sandusky, Ohio, $80,000; Saranac Lake, N. Y., $25,000; Savanna, Ill., $1000; Shelby, N. C., $1000; Shelbyville, Ky., $10,000; Sidney, Ohio, $10,000; South Bethlehem, Penn., $1000; Stamford, Tex., $1000; Tamaqua, Penn., $27,000; Tarentum, Penn., $1000; Taylorville, Ill., $10,000; Titusville, Penn., $15,000; Valley City, N. D., $15,000; Vancouver, Wash. $10,000; Van Wert, Ohio, $25,000; Washington, Ind., $1000; Washington, Iowa, $10,000; Waterloo, N. Y., $20,000; Waynesville, N. C., $1000; Wenatchee, Wash., $1000; Williamson, W. Va., $1000; Winchester, Ky. (changes), $20,000.

For continuation: Albion, Mich., $40,000; Baltimore, Md., immigration station, $300,000; Batavia, N. Y., $40,000; Beardstown, Ill., $27,000; Blackwell, Okla., $20,000; Brenham, Tex., $20,000; Chillicothe, Mo., $80,000; Coeur d'Alene, Idaho, $55,000; Cuero, Tex., $20,000; East Pittsburgh, Penn., $40,000; Eureka Springs, Ark., $16,000; Fort Atkinson, Wis., $30,000; Fulton, Mo., $30,000; Gardiner, Maine, $65,000; Gouverneur, N. Y., $35,000; Juneau, Alaska, $75,000; La Junta, Colo., $10,000; Laurel, Miss., $40,000; Lincoln, Neb., $135,000; Live Oak, Fla., $20,000; Millville, N. J., $25,000; Monongahela, Penn., $23,000; Mount Vernon, N. Y., $20,000; Muskegon, Mich. (extension), $30,000; Newark, Ohio, $50,000; Newport, R. I., $150,000; Opelika, Ala., $40,000; Palatka, Fla., $18,000; Putnam, Conn., $10,000; Quitman, Ga., $20,000; Syracuse, N. Y., $180,000; Tulsa, Okla., $45,000; Utica, N. Y. (extension), $180,000; Waltham, Mass., $20,000; Washington, D. C., Interior Department offices, $1,500,000; Webb City, Mo., $20,000; Wellsburg, W. Va., $30,000; Wilkesboro, N. C., $30,000; Ypsilanti, Mich., $35,000;

For completion: Albany, Ore., $10,000; Alliance, Ohio, $20,000; Amarillo, Tex., $133,000; Ardmore, Okla., $95,000; Augusta, Ga., $50,000; Bainbridge, Ga., $15,000; Bangor, Maine, $40,000; Bedford, Penn., $50,000; Berkeley, Calif., $20,000; Boston, Mass., appraisers' stores, $350,000; Bozeman, Mont., $30,000; Brattleboro, Vt., $50,000; Bryan, Tex., $4000; Cadillac, Mich., $43,000; Camden, S. C., $6500; Canton, Ill., $30,000; Canton, Miss., $30,000; Carnegie, Penn., $35,000; Cartersville, Ga., $5000; Chanute, Kan., $42,000; Collinsville, Ill., $36,000; Concord, N. H., $18,000; Cookeville, Tenn., $40,000; Corpus Christi, Tex., $70,000; Covington, Tenn., $6000; Danbury, Conn., $55,000; Delavan, Wis., $10,000; Denver, Colo., $200,000; De Soto, Mo., $5000; El Reno, Okla., $75,000; Ennis, Tex., $43,000; Everett, Wash., $85,000; Excelsior Springs, Mo., $20,000; Fayetteville, Tenn., $15,000; Fulton, Ky., $35,000; Garden City, Kan., $45,000; Gary, Ind., $50,000; Gastonia, N. C., $15,000; Glen Falls, N. Y., $45,000; Goldfield, Nev., $60,000; Grass Valley, Calif., $10,000; Greenfield, Mass., $75,000; Grenada, Miss., $25,000; Hagerstown, Md. (extension), $30,000; Hampton, Va., $20,000; Hanford, Calif., $15,000; Harrisburg, Penn. (extension), $75,000; Hilo, Hawaii, $50,000; Holland, Mich., $55,000; Huntington, Penn., $15,000; Ishpeming, Mich., $30,000; Jackson, Ky., $35,000; Jellico, Tenn., $30,000; Jennings, La., $25,000; Kinston, N. C., $20,000; Lafayette, La., $10,000; Lake City, Minn., $29,000; La Salle, Ill., $35,000; Lawton, Okla., $152,300; Longview, Tex., $20,000; Lynchburg, Va., $25,000; Mandan, N. D., $11,000; Martinsburg, W. Va., 20,000; McPherson, Kan., $20,000; Medford, Ore., $20,000; Middleboro, Ky., $65,000; Miles City, Mont., $118,500; Milwaukee, Wis., appraisers' stores, $40,000; Minot, N. D., $20,000; Mobile, Ala., $70,000; Morristown, N. J., $80,000; Moundsville, W. Va., $10,000; Mount Vernon, Ill., $8000; Narragansett Pier, R. I., $39,000; Newcastle, Ind., $15,000; New Haven, Conn., $400,000; New Orleans, La., remodeling customhouse, $250,000; New Rochelle, N. Y., $15,000; North Attleboro, Mass., $50,000; Norton, Va., $25,000; Orange, N. J., $20,000; Osage City, Kan., $12,000; Pendleton, Ore., $73,000; Pensacola, Fla. (extension), $30,000; Pittsburgh, Penn., laboratory, Bureau of Mines, $350,000; Plainfield, N. J., $80,000; Port Jervis, N. Y., $16,000; Poughkeepsie, N. Y. (extension), $40,000; Princeton, Ill., $50,000; Reading, Penn. (extension), $40,000; Robinson, Ill., $45,000; Rocky Mount, N. C., $30,000; St. Petersburg, Fla., $25,000; San Luis Obispo, Calif., $71,000; Seymour, Ind., $28,000; Shelbyville, Tenn., $5000; Smyrna, Del., $10,000; Sparta, Wis., $23,000; Stamford, Conn., $100,000; Sycamore, Ill., $15,000; Tarboro, N. C., $25,000; The Dalles, Ore., $60,000; Thomasville, Ga., $46,000; Three Rivers, Mich., $10,000; Tiffin, Ohio, $70,000; Tupelo, Miss., $40,000; Urbana, Ill., $10,000; Uvalde, Tex., $35,000; Williston, N. D. $5000; Wilmington, N. C., custom house, $220,000; Wilson, N. C., $15,000; Winchester, Tenn., $15,000; Winfield, Kan., $44,000; Wytheville, Va., $25,000; Yonkers, N. Y., $250,000.

Floating Crane—Portsmouth, Va.—Bids were received for the construction of a 150-ton floating revolving crane for the Navy Yard, Norfolk, Va., item 1, crane complete in accordance with Government specifications, item 2, crane complete in accordance with bidders' specifications, item 3, deduction for omitting bituminous coatings, as follows: Woerf Gusto, firm of A. F. Smulters, Schiedam, Holland, (2) $380,000 (exclusive of customs duties and harbors duties), (3) $4000; Cleveland Crane & Engineering Co., Wickliffe, Ohio, (1) $422,990, (2) $442,790, (3) $10,700; Wellman-Seaver-Morgan Co., 7000 Central Ave., Cleveland, Ohio, (1) $323,750, (2) $299,000 (duplicate of 150-ton crane furnished at Boston Navy Yard), (3) $13,800; Morgan Engineering Co., Alliance, Ohio, (2) $381,985, (3) $10,000; Shipbuilding & Engineering Co., of Woerf Conrad, Haarlem, Holland, (1) $400,000 (exclusive of customs duties and harbors duties), (3) $12,000; Newmeyer & Diamond, Agents, 82 Beaver St., New York, (1) $439,500, (2) $450,000, (3) $4150; Bethlehem Steel Co., South Bethlehem, Penn., (1) $353,000, (2) $425,000, (3) $6000 (subject to award by Mar. 31). Noted Feb. 11.

Repairs to Buildings—New Orleans, La.—Bids were received as follows for repairs and alterations in buildings Nos. 8, 10, 11, marine barracks and marine quarters at the Naval Station, New Orleans: Henry Monk, Pensacola, Fla., $36,624; Grohne Contracting Co., Joliet, Ill., $31,890; Newport Contracting & Engineering Co., Inc., Newport News, Va., $29,605; L. M. Dalgarde, New Orleans, $77,645; C. O. Eure, Hattiesburg, Miss., $28,658. Noted Feb. 14.

Dwelling and Dormitory—New Orleans, La.—Bids will be received until 11 a.m., May 15, by William M. Smith, Acting Chief of the Bureau of Yards and Docks, Navy Dept., for constructing a one-story frame dwelling and a one-story frame dormitory at the naval station, New Orleans.

✚Steel Hull—Cincinnati, Ohio—The contract for constructing the steel hull for derrick boat No. 4, Kentucky River, has been awarded to the NASHVILLE BRIDGE CO., Nashville, Tenn., at $5900.

★Towboats—Cincinnati, Ohio.—The following bids were received for constructing and delivering two steel sternwheel towboats, "Cayuga" and "Ottawa": Charles Barnes Co., Cincinnati, $42,789; Edward J. Howard, Jeffersonville, Ind., $53,784; Dubuque Boat & Boiler Co., $48,366; Rees Co., Pittsburgh, Penn., $54,275. Noted Jan. 28.

Dredging—Toledo, Ohio—The following are the bids received for dredging in Toledo Harbor: Duluth Superior Dredge Co., Duluth, Minn., $97,580; John P. Breymann, Toledo, $77,420 (on two sections); Greiling Bros., Green Bay, Wis., $123,880; Zenith Dredge Co., Duluth, Minn., $94,133; Fitzsimons & Connell Dredge & Dock Co., Chicago, Ill., $112,050; Great Lakes Dredge & Dock Co., Cleveland, Ohio, $81,190. Noted Feb. 4.

★Dredging—Indiana Harbor, Ind.—Bids will be received until 10 a.m., Mar. 29, by Lieut.-Col. W. V. Judson, U. S. Engineer Office, Chicago, Ill., for dredging in Indiana Harbor.

✚Addition to Post Office—Lincoln, Neb.—The contract for the construction of the addition to the post office at Lincoln, has been awarded to J. H. WEESE, Omaha, Neb., at $213,720. Noted Jan. 7 and Feb. 25.

✚Post Office—Uvalde, Tex.—The contract for the construction of the post office at Uvalde has been awarded to the RIVERON CONSTRUCTION CO., Uniontown, Ala. Noted Dec. 17 and Jan. 28.

Sewer System—Phœnix, Ariz.—Bids will be received by Cato Sells, Comr., Dept. of the Interior, Office of Indian Affairs, Washington, D. C., until 2 p.m., Mar. 29, for constructing a sewer system at the Phœnix Indian School and Sanatorium.

Buildings—Tucson, Ariz.—Bids will be received by Cato Sells, Comr. of Indian Affairs, Dept., of the Interior, Washington, D. C., until 2 p.m., Mar. 22, for the construction of three combination adobe school buildings at Indian Oasis, Ventana and Comobabi Indian villages.

✚Wood Stave Pipe—Benton City, Wash.—The contract for the construction of the wood stave pipe for the Snipes Mountain pumping plant of the Sunnyside unit, Yakima project, has been awarded to the PACIFIC PIPE & TANK CO., Portland, Ore., at $11,094.

Foundations—San Diego, Calif.—The following are the bids received for the construction of three foundations for radio towers, at San Diego: Doran & Reedo, $9100; Snare & Triest Co., 233 Broadway, New York, N. Y., $11,980; Henry Monk, Pensacola, Fla., $13,650; Spalding Construction Co., San Francisco, Calif., $8187; John Campbell, $9014; W. E. Keir Construction Co., $10,300; C. L. Hyde Construction Co., $7999; Isbell Construction Co., $7215; Sparks & Hale, $8560; W. N. Concannon Co., San Francisco, Calif., $12,788; Brown & Deeow, $8384; Holland Construction Co., $7458; H. H. Hancock, $10,340; above bidders of San Diego, Calif., unless otherwise specified. Noted Jan. 28.

Wireless Towers—San Diego, Calif.—Bids were received as follows on Feb. 27 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of nine 600-ft. wireless towers, three each at the radio stations at San Diego, Pearl Harbor, Hawaii, and Cavite, P. I., under the following items: Item 1, net price per lb. for steel for all nine towers; item 2, net price per lb. for the three towers at San Diego; item 3, net price per lb. for the three at Pearl Harbor; item 4, net price per lb. for the three at Cavite. The estimated weight of the steel work for each tower is 300 tons. W. B. Kyle, Call Bldg., San Francisco, (1) 6.83c., (2) 4.99c., (3) 5.49c.; Lord Young Engineering Co., Honolulu, Hawaii, (3) 5.85c.; Henry Monk, Pensacola, Fla., (1) 8.4c., (2) 7.3c., (3) 8.6c., (4) 9.3c.; Llewellyn Iron Works, Los Angeles, Calif., (2) 4.85c., (3) 5.15c.; Spalding Construction Co., Rialto Bldg., San Francisco, Calif., (3) 5.7c.; Dyer Bros, Golden West Iron Works, 17th and Kansas St., San Francisco, Calif., (1) 7.42c., (2) 6.75c., (3) 7.5c., (4) 8c.; Pacific Rolling Mill Co., Sharon Bldg., San Francisco, Calif., (2) 5.277c., (3) 5.157c., Ralston Iron Works Co., 20th and Indiana St., San Francisco, Calif., (2) 5.9c.; Wisconsin Bridge & Iron Co., Milwaukee, Wis., (2) 6.34c.; United

States Steel Products Co., New York, lump sum bid, irregular, (1) $333,296, (2) $104,636, (3) $110,382; (4) $121,526; Toledo Bridge & Crane Co., Toledo, Ohio, (2) 4.95c.; Ross Construction Co., Sacramento, Calif., (2) 7.553c.; Penn Bridge Co., Bond Bldg., Washington, (1) 6.18c.; Chicago Bridge & Iron Co., and Pittsburgh-Des Moines Iron Co., Curry Bldg., Pittsburgh, Penn., (1) 5.29c., (2) 5.7c., (3) 5.33c., (4) 5.7c.

Foundations—Pearl Harbor, Hawaii—Bids were received for constructing foundations for three radio towers at Pearl Harbor from W. N. Concannon Co., San Francisco, Calif., $10,867; Henry Monk, Pensacola, Fla., $20,000. Noted Jan. 28.

Wireless Towers—Pearl Harbor, Hawaii—See item under San Diego, Calif.

Wireless Towers—Philippine Islands—See item under San Diego, Calif.

MISCELLANEOUS

Enlarging Station—Boston, Mass.—Bids will be received until Mar. 11 by the Transit Commission for enlarging the Park St. station. E. S. Davis, 15 Beacon St., is Ch. Engr.

★**Subway**—Boston, Mass.—(Official)—The following bids were received Feb. 25 by the Boston Transit Commission for the construction of Section H, Dorchester Tunnel: T. A. Gillespie Co., 50 Church St., New York, $554,750; H. P. Converse & Co., 60 Broad St., Boston, $561,401; J. P. O'Riorden, Charlestown, Mass., $581,470; W. J. Brady, Roslindale, Mass., $604,350; Bruno & Petitti, Boston, $607,900; L. B. Cleveland, Watertown, N. Y., $610,625; Coleman Bros., Boston, $612,190; Hugh Nawn Construction Co., Roxbury, Mass., $628,510; James J. Coughlan Co., Boston, $636,780; Thomas-Harmon Co., St. Louis, $645,352; James E. Gaffney, Boston, $658,110; Rowe Contracting Co., Brighton, Mass., $660,595; P. McGovern & Co., Boston, $684,850; Oscar Daniels Co., New York, $712,610. Noted Feb. 11.

Coal-Handling Apparatus—Boston, Mass.—Bids will be received until Mar. 16, by the Trustees of the Boston City Hospital for coal pockets and coal-handling apparatus for the Boston City Hospital. John J. Dowlings, M. D., is Supt.

Fill—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 3 p.m., March 11, by the Park Board, Municipal Bldg., Borough of Manhattan, for furnishing and placing 250,000 cu.yd. of earth along the shore road between 94th St. and Fort Hamilton Ave. Amount of security required, $20,000.

✚**Elevated Railway Work**—New York, N. Y.—(Borough of Brooklyn)—The Public Service Commission of the First District has approved the award of the New York Municipal Railway Corporation to POST & McCORD, INC., at $331,163, for the construction of nine stations on the Sea Beach line which joins the Fourth Ave. subway at 65th St.

✚**Fire Hose**—New York, N. Y.—(Borough of Manhattan)—The Bureau of Repairs and Supplies has awarded a contract to the MANHATTAN RUBBER MFG. CO., 18 Vesey St., New York, at $19,868, for furnishing 40,000 ft. of 2½-in. rubber-lined fire hose.

Motor Fire Apparatus—Utica, N. Y.—The City Council has authorized a bond issue of $40,000 for the purchase of motor-driven apparatus for the fire department.

✚**Seawall**—Allenhurst, N. J.—The City Council has awarded the contract for the construction of an extension to the seawall to JAMES W. BROOKS, Ocean Grove, at $11,367. Noted Jan. 21.

✚**Fire Station**—Hoboken, N. J.—The Common Council has awarded the contract for constructing the fire station at Second and Jefferson St. to A. J. PHELAN, 47 Park St., Jersey City, at $37,750. Noted Nov. 26, Dec. 17, Jan. 7, and 14, Feb. 4.

Fire Apparatus—Jersey City, N. J.—(Official)—Bids will be received until 2 p.m., Mar. 11, by the Board of Commissioners for furnishing seven horse-drawn steam fire engines, three 75-ft. motor aërial trucks and three fuel cars.

Dump Carts—Jersey City, N. J.—(Official)—Bids will be received until 2 p.m., Mar. 11, by the Board of Commissioners for furnishing steel body dump carts. M. I. Fagan is City Clk.

Bathhouse—Newark, N. J.—Max Weinburg, 26 Mercer St., plans to construct a Turkish bath at 32 Mercer St. It will be three stories, 28x125 ft. The estimated cost is $30,000. M. J. Nadel, 9 Clinton St., is Arch.

Dike—Newark, N. J.—(Official)—Bids will be received until 4:30 p.m., Mar. 15, by the Essex County Mosquito Extermination Committee for the construction of about one mile of dike in the Newark meadows.

Park Work—Harrisburg, Penn.—Warren H. Manning, Landscape Arch., Boston, Mass., has been commissioned by the City Planning Commission to prepare sketches for the beautifying of Capitol Park.

★**Road Roller, Concrete Mixer and Heating Kettles**—Sharon, Penn.—(Official)—Bids will be received until noon, Mar. 10, by Claude B. Lartz, Secy., Borough of Sharon, for one three-wheel, 10-ton road roller, one batch concrete mixer with gravity distributor and two five-barrel heating kettles For details see advertisement under "Contracts to Be Let."

Wagons—Washington, D. C.—(Official)—The Siamese Royal Railway Department invites bids for 159 Goods and Cattle Wagons and spare parts. Specifications and drawings may be had from the Siamese Legation, Washington, D. C., on payment of fee of $4.

✚**Drainage**—Bradentown, Fla.—The contract for drainage work in Manatee County has been awarded to CHARLES F. HILL, Palmetto, at $100,000.

★**Track Material**—Jacksonville, Fla.—(Official)—Bids will be received until noon, Mar. 10, by the Board of Port Commissioners, Room 314 Realty Bldg. for track material. F. W. Bruce is Ch. Engr. For details see advertisement under "Contracts to Be Let."

Drainage—Gonzales, La.—The following bids were received Feb. 4 by the Commissioners of New River Drainage District for 2,000,000 cu.yd. of canal excavation: Hampton Reynolds, New Orleans, 12c.; J. S. Codifer, New Orleans, 8.25c.; R. H. & G. A. McWilliams, Chicago, 7.65c. cash basis and purchase of bonds amounting to $175,000; D. B. Gore & Co., Shreveport, La., 7.49c., cash basis 8.74c. and purchase of bonds at par, and 6.75c. including 15% commission and cost of equipment. Noted Dec. 31.

Elimination of Grade Crossing—Canton, Ohio—The Pennsylvania R.R. is having plans prepared for elevating its tracks, eliminating the grade crossing at Deuber Ave.

Motor Fire Apparatus—Lima, Ohio—The City Council has authorized a bond issue of $15,000 for motorizing the fire department equipment.

★**Dredging**—Xenia, Ohio—(Official)—Bids will be received until 10 a.m., Mar. 18, by the Board of County Commissioners, Greene County, for the excavation of 144,183 cu.yd. of earth, floating dredge work. For details see advertisement under "Contracts to Be Let."

Ditch—Ft. Wayne, Ind.—Bids will be received until Mar. 6, for the construction of 2.75 miles of ditch. R. W. Guenther is County Engr.

Elimination of Grade Crossing—Flint, Mich.—On Feb. 17 the citizens approved a bond issue of $50,000, the proceeds to be used for the construction of a subway under the tracks of the Pere Marquette R.R. D. E. Newcombe is City Clk.

✚**Drainage**—Lewistown, Ill.—The Commissioners of Fulton County have awarded the following contracts for drainage and levee work: For drainage ditches and levees, M. J. O'MARA & SONS, Beardstown, at $110,000; constructing pumping plant, BEARDSTOWN CONCRETE CONSTRUCTION CO., at $12,000; for blasting and clearing, H. B. OWSLEY CO., Beardstown, at $8000. Noted Feb. 4.

Waterway—Springfield, Ill.—Edward F. Dunne, Governor, has sent a message to the Illinois General Assembly urging that body to authorize the construction of an 8-ft. waterway between Joliet and Utica, thereby forming a continuous channel from the lakes to the gulf; the authorization of a bond issue, not to exceed $3,500,000 was also urged.

✚**Elevators**—Milwaukee, Wis.—The contract for furnishing and installing all freight and passenger elevators in the new addition to Gimbel Bros. store has been awarded to the S. HELLER ELEVATOR CO., Milwaukee. H. J. Esser, Camp Bldg., is Arch.

✚**Ditch**—Bemidji, Minn.—The contract for the construction of Ditch No. 27 has been awarded to GEORGE E. BROWN, Litchfield, at about $63,000.

Asphalt and Asphaltic Cement—Minneapolis, Minn.—(Official)—The following bids were received by the city for (a) 800 tons asphaltic cement, (b) 800 tons asphalt, f.o.b. cars Minneapolis: John Baker Jr., Chicago, (a) $17.43 (b) $17.43; Magnolia Petroleum Co., Dallas, Tex., (a) $17.25 (b) $17.25; Union Oil Co., Chicago, (a) $17 (b) $17; George W. Lampson, Chicago, (Standard Oil Co. of N. J.) (a) $15.87, (b) $15.87; Standard Oil Co., Indiana, Chicago, (a) $14.50, (b) $14.50; Barber Asphalt Co., Chicago "Trinidad", (a) $26.65, (b) $22.74, "Bermudez," (a) $35.64, (b) $33.32. Noted Feb. 18.

Ditch Work—Owatonna, Minn.—Bids will be received until Mar. 13 by M. J. Parcher, County Audr., for the construction of Judicial Ditch No. 2, about 240,500 cu.yd. of excavation. A highway bridge will also be constructed and 30 metal culverts installed. George A. Ralph, 410 Shubert Bldg., St. Paul, is Engr.

✚**Drainage**—Cape Girardeau, Mo.—The Commissioners of the Little River Drainage District have awarded the contracts for the construction of Ditches Nos. 11 and 17, about 9,850,000 cu.yd., to the HOOSIER LAND & INVESTMENT CO., Sikeston, at 6.19c. per cu.yd. for excavation and $20 per acre for clearing.

✚**Drainage**—Elsberry, Mo.—The contract for 100,000 cu.yd. of earthwork in the Elsberry Drainage District has been awarded to the WILLIAM J. CALLAHAN CONSTRUCTION CO., Elsberry, at $13,480.

Elimination of Grade Crossings—Kansas City, Mo.—The county and the Missouri Pacific Ry. have made a tentative agreement for the construction of a subway, eliminating the grade crossing between Kansas City and Independence. A. L. Cooper, County Counselor, has announced that an overhead crossing will be constructed in the same vicinity over the tracks of the Chicago & Alton. The estimated cost of the two projects is $40,000.

Ditches—Edna, Tex.—Bids will be received until Mar. 9 by the Drainage Commissioners, County Drainage District No. 5, for the construction of ditches, drains, canals and levees, about 627,390 cu.yd. of excavation. J. W. De Witt is Chn., Drainage Comrs.

Dock—Hoquiam, Wash.—The Port of Hoquiam is having plans prepared for the construction of a 150x1250-ft. dock at the foot of Eighth St. The estimated cost is $75,000.

✚**Canal Work**—Chico, Calif.—The Feather River Canal Co. has awarded a contract for the construction of reinforced-concrete headgates and spillways on the main canal near Thermalito to the CHICO CONSTRUCTION CO., at approximately $25,000.

✚**Pier**—San Francisco, Calif.—The State Board of Harbor Commissioners has awarded the contract for repairing Pier 21, at the fot of Filbert St., to the SAN FRANCISCO BRIDGE CO., at $11,887.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Biddeford, Maine—Preliminary plans are being prepared for the construction of a theater on the site of the Thacher Hotel. Estimated cost, $100,000. E. J. Bolin is interested.

Lewiston, Maine—Plans have been prepared by Frank A. Munsey, Arch., New York, N. Y., for the construction of a

nine-story hotel at Bates and Main St. Estimated cost, $750,000.

+Boston, Mass.—The contract for erecting Ward C at the Consumptives' Hospital on River St., Dorchester District, has been awarded to the J. F. LOCATELLI CO., INC., at $60,384, under Item 1. Other bids for items 1 and 2 were: J. E. Locatelli (2) $56,554; Leighton Mitchell Co., $61,745, $56,745; C. S. Cunningham Construction Co., $62,676, $58,576; J. Caddigan Co., $62,900, $59,200; Norcross Bros. Co., $63,754; A. Piotti, $65,340, $60,618; William Crane, $66,555, $62,195; Haynes Construction Co., $66,800, $59,700; J. Slotnik, $69,875, $65,500; Marr Bros. & Stewart Co., $70,378, $65,378; S. P. Troy Co., $73,250, $69,250; M. D. Mealey & Co., $73,500, $69,500.

+Boston, Mass.—The contract for the construction of a hotel on Columbus Ave., for D. J. Keefe and Cornelius Keefe, 111 Dartmouth St., has been awarded to the S. A. DODGE CO., Cambridge, Mass. Estimated cost, $150,000. Noted Feb. 4.

+Boston, Mass.—The contract for the construction of a theater at Massachusetts Ave. and St. Cecelia St. for the Colonial Amusement Co., has been awarded to the JARDIN CO., 489 Fifth Ave., New York, N. Y. Estimated cost, $120,000. Noted Dec. 10, 1914.

Boston, Mass.—Preliminary plans are being prepared for the construction of a six-story office building at Oliver and Franklin St. for A. W. Perry. Estimated cost, $60,000.

Chelsea, Mass.—(Boston post office)—Plans are being prepared by Y. H. Gowing, 18 Tremont St., Boston, for the construction of a four-story apartment block. Estimated cost, $60,000.

Salem, Mass.—A. J. Davis, 221 Essex St., plans to construct a three-story, 90x93-ft. store and apartment block at Federal and Boston St. Estimated cost, $40,000.

Springfield, Mass.—Plans are being prepared by Hoggson Bros., New York, N. Y., for the construction of a 10-story bank and office building at Harrison Ave. and Main St. for the Third Ave. National Bank. Estimated cost, $600,000. Joseph Shattuck is Pres. of Bank.

Springfield, Mass.—Bids will be received until 6 p.m., Mar. 11, for the construction of a seven-story, 127x150 ft., building on Chestnut near Hillman St. for the Y. M. C. A. Estimated cost, $93,000. Shattuck & Hussey, Chicago, Ill., is Arch. Noted Feb. 25.

Springfield, Mass.—(Official)—Bids will soon be received by Russell C. Parsons for the construction of a five-story apartment house on Maple St. Estimated cost, $45,000. Noted Feb. 18.

Providence, R. I.—Jackson, Robertson & Adams, Turks Head Bldg., is preparing plans for the construction of a church for the Luthenian Society. Estimated cost, $60,000. S. G. Hogglund, 134 Wesleyan Ave., is Pastor.

Bristol, Conn.—Bids will be received until 4 p.m., Mar. 15, by Newell Jennings, 195 Main St., for the construction of a two-story, 116x124-ft. school on Maple St., for District No. 1. Estimated cost, $85,000. Walter P. Crabtree, 272 Main St., New Britain, Conn., is Arch. Noted Jan. 21, 1915.

Milford, Conn.—The Board of Selectmen contemplates the rebuilding of the Town Hall and Court House recently destroyed by fire. Estimated cost, $75,000.

+New London, Conn.—The general contract for the construction of a three-story, 120x156-ft. building on Meridian St., for the Y. M. C. A., has been awarded to H. R. DOUGLAS, INC., 75 Jefferson Ave., at $77,900. Noted Dec. 31.

New York, N. Y.—(Borough of Bronx)—Plans have been prepared by John P. Boyland, Fordham Rd. and Webster Ave., for the construction of a five-story apartment house at Crotona Ave. and 170th St. for the Joseph Sonsin Co., 1344 Bristow St. Estimated cost, $60,000.

New York, N. Y.—(Borough of Bronx)—Bids will be received Mar. 15 by the P. J. Dwyer Building Co., 1879 Southern Blvd., for the construction of four five-story apartment houses at 184th St. and Grand Concourse. Noted Feb. 25.

New York, N. Y.—(Borough of Bronx)—Bids will be received until Mar. 6 by the Police Department for the construction of a five-story police station at Brook Ave. and 142d St. Estimated cost, $150,000. Thain, Hewlett & Reddy, 1181 Broadway, is Arch.

New York, N. Y.—(Borough of Bronx)—Gronenberg & Leuchtag, 303 Fifth Ave., has completed plans for the construction of a five-story apartment house at 100 Haven Ave., for the Filrose Construction Co. Estimated cost, $90,000.

+New York, N. Y.—(Borough of Manhattan)—The general contract has been awarded to THOMAS T. HOPPER CO., 1326 Broadway, for alterations to the 10-story hospital at 61st St. and Amsterdam Ave., for the New York Nursery and Child's Hospital, 161 West 61st St. Estimated cost, $100,000.

New York, N. Y.—(Borough of Manhattan)—Plans are being prepared for the construction of a moving picture theater on Broadway, between 160th and 161st St., for P. H. Lynch, 520 West 142nd St. Estimated cost, $100,000.

New York, N. Y.—(Borough of Manhattan)— Plans are being prepared by J. C. Green, Arch., 2 Columbus Circle, for the construction of a 12-story building at 1562 Broadway, for the L. F. H. & M. Co. Estimated cost, $65,000.

New York, N. Y.—(Borough of Manhattan)—Plans are being prepared by Louis A. Sheinart, Arch., 194 Bowery, for the construction of a five-story annex to the Home of the Sons and Daughters of Israel, at 232 East 10th St. Estimated cost, $40,000.

New York, N. Y.—(Borough of Manhattan)—The Charmion Construction Co. plans to construct a 12-story apartment house at West End Ave. and 75th St. Estimated cost, $1,000,000.

New York, N. Y.—(Borough of Queens)—Plans are being prepared for the construction of a 12-story loft building on Jackson Ave. and Tenth St., Long Island City, for the Everett Realty & Construction Co., Flatiron Bldg., New York, N. Y. Estimated cost, $500,000.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received by C. B. J. Snyder, Supt. of School Bldgs., Park Ave. and 59th St., New York, N. Y., until 3 p.m., Mar. 8, for the construction of P. S. No. 41, in Crocheron and Franklin Ave., Bayside, N. Y. Estimated cost, $40,000.

Rochester, N. Y.—The George C. Buell Co., Exchange St., plans to construct a four-story building on Exchange near Adams St. Estimated cost, $100,000.

Rochester, N. Y.—The Knights of Columbus, Canandaigua, N. Y., contemplates the construction of a clubhouse. Estimated cost, $150,000. James Dunnigan, Canandaigua, is interested.

Syracuse, N. Y.—Plans have been prepared for the construction of a theater and office building at 412 South Salina St., for the United Booking Offices of America. Estimated cost, $500,000.

East Orange, N. J.—The Ballum Investment Co. plans to construct a five-story apartment house on Harrison St. Estimated cost, $125,000.

Morristown, N. J.—Plans have been prepared by Guilbert & Betelle, Arch., 665 Broad St., Newark, for the construction of a three-story, 130x170-ft. high school on Early Ave. Estimated cost, $150,000.

Newark, N. J.—Plans are being prepared by McMurray & Pulis, Arch., for the construction of a theater for the J. Frank Hatch Film Co., Pittsburgh, Penn. Estimated cost, $60,000.

Newark, N. J.—E. V. Warren, 31 Clinton St., has prepared plans for the construction of a five-story, 50x82-ft. building, on Camp St. near Broad St., for the J. H. Mazel Co., 65 South Munn Ave. Estimated cost, $50,000.

Rutherford, N. J.—The Board of Education contemplates the construction of a two-story school on Orient Way, near Garfield Pl. Estimated cost, $50,000. W. W. Rich, 43 Donaldson Ave., is Pres. of Bd.

Beaver Falls, Penn.—Bids will be received by the County Commissioners for the construction of a county building. Estimated cost, $105,000. H. B. Sharer is Arch.

New Castle, Penn.—Plans are being prepared by H. M. Wirsing for the construction of a school in the Seventh Ward. Estimated cost, $80,000.

Philadelphia, Penn.—Henon & Boyle, Fuller Bldg., is preparing plans for the construction of a building on Market and Mole St. Estimated cost, $50,000.

Pittsburgh, Penn.—Preliminary plans are being prepared for the construction of a seven-story, 120x240-ft. arcade building, on the site of the old St. Paul's Cathedral, for Henry C. Frick. Estimated cost, $3,000,000.

Pittsburgh, Penn.—According to press reports the Board of Education contemplates the construction of the Homewood-Brushton High School. Estimated cost, $700,000. C. L. Wooldridge is Bldg. Supt. of Bd.

South Bethlehem, Penn.—Plans are being prepared by J. R. Wilt, 104 Fourth St., Bethlehem, Penn., for the construction of a four-story, 34x100-ft. apartment house. Estimated cost, $40,000.

Washington, D. C.—Plans are being prepared by George N. Ray for the construction of a seven-story apartment house on New Hampshire Ave. and U. St. N.W., for William J. Kehoe. Estimated cost, $500,000.

+Nashville, Tenn.—The general contract for the construction of a club house at Belle Meade for the Nashville Golf and Country Club has been awarded to J. W. PATRICK & CO., Nashville. Estimated cost, $50,000. Noted Dec. 10, 1914.

+Louisville, Ky.—The general contract for the construction of a four-story building at Fourth St. between Chestnut St. and Broadway for B. Bernheim, has been awarded to A. MARCUM. Estimated cost, $100,000.

Cincinnati, Ohio—Plans are being prepared by Gaber & Woodward, Arch., for the construction of the East Hills High School on the Erkenbrecker Tract at Madison and Erie Ave. Estimated cost, $700,000.

+Cleveland, Ohio—(Official)—JOHN GILL & SON, 1301 Citizens Bldg., has been awarded the contract for the construction of additions and alterations to the New England Bldg., 627 Euclid Ave. Walker & Weeks, 1900 Euclid Ave., is Arch. Noted Feb. 25.

Cleveland, Ohio—S. H. Weis, Arch., 1030 Schofield Bldg., is preparing plans for the construction of a seven-story hotel on University Circle. Estimated cost, $1,000,000. J. S. Kohn, Engineers Bldg., is interested.

Cleveland, Ohio—Plans have been prepared by Richardson & Yost, Arch., 354 Rockefeller Bldg., for the construction of a two-story theater on Superior Ave. for the Mall Building Co. Estimated cost, $40,000.

Cleveland, Ohio—Plans are being prepared by A. F. Janowitz, Arch., Permanent Bldg., for the construction of six-story theater and commercial building on Euclid Ave. The estimated cost is $200,000. E. Mandelbaum is representing the owner.

Columbus, Ohio—Plans are being prepared by J. Upton Gribben, Arch., for the construction of an addition to the Indianola Methodist Episcopal Church. Estimated cost, $40,000.

Dayton, Ohio—Plans are being prepared by Thies & Thies, 208 South Ludlow St., for the construction of a three-story apartment house at Third St. and Western Ave. The estimated cost is $75,000.

Dayton, Ohio—Thies & Thies, 208 South Ludlow St., is preparing plans for the construction of a 10-story hotel at Fifth and Wilkinson St. The estimated cost is $200,000.

Dayton, Ohio—Bids were received by the Board of Education for the general construction of the Dayton View School at Cambridge, Yale and Euclid Ave., as follows: King Lumber Co., Charlottesville, Va., $127,000; A. Bentley

& Sons Co., $137,490; W. C. Handsley, Zanesville, $139,979; Structural Concrete Co., $140,500; McCullen & Vaughn Co., Hamilton, $142,812; Farrell Construction Co., Cincinnati, $143,315; A. M. Frey, Piqua, $143,572; C. H. Moses Construction Co., Chicago, $147,250; John Boren & Sons Co., $147,905; Engle & Gohn, $150,188; Ritchie & Wertz Co., $152,463; William E. Leopold, $153,255. The lowest bid for the heating was submitted by M. J. Gibbons, at $27,307

Lakewood, Ohio—The lowest bid received for the construction of a two-story library at Detroit and Arthur Ave. for the Board of Education was that of the C. N. Griffin Co., 3111 Carnegie Ave., Cleveland, at $40,000. Noted Jan. 21.

+Piqua, Ohio—The contract for remodeling the Piqua National Bank Bldg. has been awarded to T. A. GRAHAM. Estimated cost, $50,000. W. K. Shilling, Springfield, is Arch.

+Ripley, Ohio—The contract for the construction of a 10-room school has been awarded to JOHN A. JEWELL & SONS CO., Western Ave. and Hopple St., Cincinnati. The estimated cost is $40,000. Noted Dec. 10.

Sidney, Ohio—Plans have been prepared by W. F. Miller, Arch., for the construction of a three-story, 40x165-ft. office building for the Sterline-Kelsey Estate. The estimated cost is $100,000.

Toledo, Ohio—Bids were received by the Board of Education for the general construction of the Detroit Ave. School as follows: A. Bentley & Sons Co., $208,208 (construction complete), $161,161 (general construction only); Walls, Boch & Kuhlman, $175,000; H. J. Spieker Co., $184,330; E. H. Voss, $184,339; John Ploch Co., $196,968; King Lumber Co., Charlottesville, Va., $201,103. The lowest bid received for the heating was submitted by Eagan Bros. Co., at $15,351.

+Toledo, Ohio—The contract for the construction of a building for the Northern National Bank, Madison and Superior Ave., has been awarded to the A. BENTLEY & SONS CO. Estimated cost, $200,000.

Wilmington, Ohio—The citizens of the county voted on Feb. 17 to issue $300,000 in bonds for the construction of a county courthouse and jail.

Newcastle, Ind.—(Official)—P. H. Wolfard, Audr., informs us that the construction of a $40,000 county hospital has been abandoned. Noted Jan. 7.

Battle Creek, Mich.—Plans are being prepared by E. Jackson Casse, Arch., 53 West Jackson St., Chicago, Ill., for the construction of a five-story building for the City Bank. The estimated cost is $80,000.

Detroit, Mich.—Albert Kahn, Arch., Trussed Concrete Bldg., is preparing plans for the construction of an office building for the Michigan Smelting & Refining Co., 1685 Joseph Campau Ave. Joseph Sillman is Pres. and Gen. Mgr. and Charles A. Patch is Member of Bd. of Dir.

Detroit, Mich.—The University of Detroit, 363 Jefferson Ave., is having plans prepared by O. C. Gottesleben, Arch., 2224 Dime Bank Bldg., for the construction of a three-story, 100x200-ft. building. The estimated cost is $150,000. William F. Dooley, S. J., is Pres.

+Chicago, Ill.—(Official)—The contract for the construction of a 15-story building on State and Adams St. for Buck & Raynor has been awarded to HENRY ERICSSON CO., 100 South Dearborn St. Noted Feb. 18.

Chicago, Ill.—W. O. Goodman, 80 East Jackson Blvd., has purchased a site at Scott and North State St. Plans are being prepared for the construction of an apartment house to cost $150,000.

Chicago, Ill.—The Council voted to start work not later than Mar. 15 on removing the coach yards of the Baltimore & Ohio R.R. The site will be used for the construction of the Union Station. Estimated cost, $65,000,000. J. J. Turner is Pres. of Union Station Co., and John F. Wallace is Chn. of Chicago Terminal Comn. Noted Feb. 4.

Chicago, Ill.—According to press reports, construction will be begun about May 1 on the 14-story, 40x100-ft. store and office building on Randolph and Dearborn St. for E. Eiger & Bros., 1249 Wabash Ave. The estimated cost is $350,000. Noted Feb. 25.

Chicago, Ill.—The Trustees of the Concordia Evangelical Lutheran Hospital will construct a hospital on Haddon Ave. near Kedzie Ave. The estimated cost is $100,000. E. W. Remke and George Leininger are Trustees.

Joliet, Ill.—W. C. Zimmerman, Arch., 64 East Van Buren St., Chicago, is preparing plans for the construction of a six-story reinforced-concrete building to be known as the D'Arcy Bldg., on North Chicago St., for J. W. D'Arcy. The estimated cost is $150,000.

Rock Island, Ill.—Plans are being prepared by Cyrus D. McLane, Arch., 215 Safety Bldg., for the construction of a jail. The estimated cost is $75,000.

Rock Island, Ill.—Olaf Z. Cervin, Arch., 401 Safety Bldg., is preparing plans for the construction of a school at Tenth Ave. and 12th St. Estimated cost, $50,000.

Springfield, Ill.—Plans are being prepared by William B. Ittner, Arch., 408 Board of Education Bldg., St. Louis, Mo., and George H. Helmle, Arch., 804 Ferguson Bldg., for the construction of a school. Estimated cost, $40,000. Plans are also being prepared for the remodeling of the high school, to cost about $275,000.

Springfield, Ill.—Navarre, Percival and Capital Lodges of the Knights of Pythias will construct a building. The estimated cost is $50,000.

Green Bay, Wis.—(Official)—The contract for the construction of the sanitarium for the Wisconsin Deaconess Hospital will be awarded Mar. 25. P. T. Benton, 605 Minahan Bldg., is Arch. Noted Feb. 4.

Green Bay, Wis.—R. C. Buchanan plans to construct a four-story commercial building at Walnut and Washington St. The estimated cost is $100,000.

Milwaukee, Wis.—The Ticonic Investment Co. will construct a 12-story building at Broadway and Mason St. to replace the Hathaway Bldg. The estimated cost is $900,000.

Milwaukee, Wis.—Plans have been prepared by Kirchoff & Rose, Arch., 1312 Majestic Bldg., for the construction of a theater to be known as the Palace Hippodrome, at Grand Ave. and Sixth St. The estimated cost is $350,000.

Milwaukee, Wis.—Bids will soon be received by E. Brielmaier & Sons Co., Arch. 111 Mason St., for the construction of an addition to the Convent of the Sisters of St. Francis. The estimated cost is $100,000.

Boone, Iowa—Plans are being prepared by Proudfoot, Bird & Rawson, Arch., Hubbell Bldg., Des Moines, for the construction of a six- or an eight-story office building at Eighth and Story St. for the First National Bank. The estimated cost is $140,000.

Independence, Iowa—Harry E. Netcott, Arch., has prepared plans for the construction of a two-story County Home. Estimated cost, $45,000.

DRAINAGE DITCHES, OTOE AND JOHNSON COUNTIES, NEB.

+Bids were received Jan. 11 by the County Auditor for constructing drainage ditches in Drainage District No. 1, Otoe and Johnson Counties. The bidders were as follows: (A) Engineers Estimate; (B) R. B. Gordon & Co., Salina, Ohio; (C) FRED M. CRANE, Omaha, Neb. (awarded contract); (D) Inter-Mountain Bridge & Construction Co., Tecumseh, Neb.; (E) W. M. Lane, Council Bluffs, Iowa; (F) Edward Peterson Co., Omaha, Neb.; (G) O. P. Herrick, Des Moines, Iowa; (H) Yale & Ragean, Chicago, Ill.; (I) Sternberg Bros., Pine Bluff, Ark.; (J) Munn-Reise Construction Co., Kansas City, Kan.; (K) W. E. Callahan Construction Co., Omaha, Neb.; (L) C. D. Campbell, Lincoln, Neb.; (M) Winston Bros., Minneapolis, Minn.; (N) D. C. Stephens, Buffalo, N. Y. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
193,565 cu.yd. excavation, Main Ditch	$0.08	$0.0698	$0.07	$0.065	$0.067	$0.0644	$0.0788	$0.082	$0.07	$0.076	$0.0745	$0.0533	$0.075	$0.073
233,109 cu.yd. excavation, Main Ditch	0.08	0.0698	0.07	0.065	0.067	0.0644	0.0788	0.0820	0.07	0.076	0.0745	0.0533	0.075	0.070
145,513 cu.yd. excavation, Main Ditch	0.08	0.0698	0.07	0.065	0.067	0.0644	0.0788	0.082	0.07	0.076	0.0745	0.0533	0.075	0.07
247,967 cu.yd. excavation, Main Ditch	0.08	0.0698	0.07	0.065	0.067	0.0644	0.0788	0.082	0.07	0.076	0.0935	0.0533	0.075	0.07
252,365 cu.yd. excavation, Main Ditch	0.08	0.0698	0.07	0.065	0.067	0.0644	0.0788	0.082	0.07	0.076	0.0935	0.0533	0.075	0.08
121,747 cu.yd. excavation, Cutoff Johnson Co., South Branch	0.12	0.0925	0.07	0.120	0.120	0.100	0.0788	0.130	0.11	0.076	0.1097	0.115	0.140	0.13
181,227 cu.yd. excavation, Otoe County, South Branch	0.08	0.0698	0.07	0.075	0.067	0.0644	0.0788	0.00	0.08	0.076	0.100	0.07¾	0.105	0.10
6,591 cu.yd. excavation, Wilson Creek	0.110	0.099	0.07	0.090	0.100	0.090	0.0788	0.09	0.100	0.076	0.100	0.09¼	0.100	0.10
29,198 cu.yd. excavation, Spring Creek	0.12	0.099	0.07	0.120	0.120	0.110	0.0788	0.170	0.12	0.076	0.120	0.11½	0.125	0.12
79,892 cu.yd. excavation, Walnut Creek	0.12	0.099	0.07	0.090	0.110	0.090	0.0788	0.09	0.10	0.076	0.100	0.09¼	0.110	0.12
38,376 cu.yd. excavation, Muddy Creek	0.12	0.099	0.07	0.090	0. ¼	0.110	0.0788	0.09	0.11	0.076	0.11	0.09¼	0.100	0.11
7178 cu.yd. excavation, Lateral A	0.15	0.099	0.07	0.150	0.150	0.150	0.0788	0.12	0.13	0.076	0.14	0.120	0.150	0.15
3205 cu.yd. excavation, Lateral B	0.15	0.120	0.07	0.150	0.150	0.150	0.0788	0.17	0.13	0.076	0.14	0.150	0.150	0.15
1570 cu.yd. excavation, Lateral C	0.15	0.100	0.07	0.150	0.150	0.150	0.0788	0.12	0.13	0.076	0.14	0.150	0.150	0 15
5918 cu.yd. excavation, Lateral D	0.15	0.120	0.07	0.150	0.150	0.150	0.0788	0.12	0.13	0.076	0.14	0.07	0.10	0.15
12,347 cu.yd. excavation, Lateral E	0.15	0.099	0.07	0.150	0.150	0.130	0.0788	0.12	0.13	0.076	0.14	0.09¼	0.15	0.15
5952 cu.yd. excavation, Lateral F	0.15	0.120	0.07	0.150	0.150	0.150	0.0788	0.12	0.13	0.076	0.14	0.09¼	0.15	0.15
5000 cu.yd. excavation, Lateral G	0.15	0.080	0.07	0.150	0.150	0.150	0.0788	0.13	0.13	0.076	0.14	0.11½	0.15	0.15
3000 cu.yd. excavation, Lateral H	0.15	0.080	0.07	0.150	0.150	0.150	0.0788	0.13	0.13	0.076	0.14	0.11½	0.15	0.15
6750 sq.yd. excavation, River Clearing	0.30	0.250	0.25	0.300	0.300	0.30	0.250	0.35	0.15	0.20	0.45	.....	0.30	0.30
600 cu.yd. Dillion Levee	0.15	0.120	0.07	0.150	0.15	0.150	0.0788	0.15	0.13	0.076	0.15	0.135	0.15	0.15
300 cu.yd. excavation, Panko Levee	0.15	0.120	0.07	0.150	0.15	0.150	0.0788	0.15	0.13	0.076	0.15	0.135	0.15	0.15
300 cu.yd. excavation, Poppe Levee	0.15	0.120	0.07	0.150	0.15	0.150	0.0788	0.15	0.13	0.076	0.15	0.135	0.15	0.15
Extended totals	$148,847	$125,502	$115,090	$126,840	$131,793	$121,908	$136,213	$149,919	$132,492	$125.553	$152,711	$110,590	$147,919	$143 494

Albert Lea, Minn.—Hoffman & Mosse, Arch., Rochester, is preparing plans for the construction of a five-story office building at Newton and William St. The estimated cost is $100,000. H. J. Harm is interested.

Albert Lea, Minn.—The Y. M. C. A. contemplates the construction of a building at West Clark and St. Mary's St. The estimated cost is $60,000.

Kansas City, Kan.—Bids will be received until Mar. 8 for the construction of an addition and for remodeling the Whittier School at Bocke St. and Ivandale Ave. W. A. Seymour is Clk. of Bd. of Education. Noted Dec. 10.

Lansing, Kan.—Plans have been prepared by Charles E. Chandler, State Arch., State House, Topeka, for the remodeling of the state prison. The estimated cost of the work is from $300,000 to $500,000.

Kearney, Neb.—(Official)—Bids will be received about May 15 for the construction of a $85,000 auditorium and gymnasium. A. L. Cavmist, Fairbury, is Secy. of Bd. of Education, Nebraska State Normal School. Noted Jan. 14.

Omaha, Neb.—The First Presbyterian Church plans to construct a building in the West Farnum District. The estimated cost is $150,000.

Carthage, Mo.—Eugene B. Clark, 1236 Madison Park, Chicago, Ill., will construct a six-story hotel. The estimated cost is $100,000.

Springfield, Mo.—Mrs. Otis Milligan plans to construct a six-story office building on South St. and Public Sq. The estimated cost is $100,000.

Dallas, Tex.—Plans are being prepared by Lang & Mitchell, Arch., for the construction of a ten-story building at Main and Martin St. for J. W. Crotty and associates.

Ft. Worth, Tex.—The School Board contemplates the construction of a high school for boys. The estimated cost is $300,000 to $350,000. George C. Clarke is Pres.

The Universal Portland Cement Co., Chicago, Ill., announces that Benjamin B. Affleck has been appointed Pres., and that Blaine S. Smith has been appointed to succeed him as Gen. Sales Mgr.

The W. D. Lewis Co., contractors, general office, 41 West 33rd St., New York, N. Y., has located its permanent branch office at 316 Ridge Bldg., Kansas City, Mo. E. S. Gallagher, Vice-Pres. of the company, is Manager-in-Charge of the Kansas City office. The Lewis Co. erected the building occupied by Child's Restaurant at 10th and Hain St., Kansas City, and is now building the Herr-Andres Bldg., Springfield, Mo.

The Lea-Courtenay Co., 90 West St., New York, N. Y., has opened an office in the Conway Bldg., Chicago, Ill. This company, which manufactures high-duty turbine pumping machinery, was formerly represented in that city by Maher & Bryne.

Galveston, Tex.—A. J. Bellis, Arch., is preparing plans for the construction of a three-story store and hotel building for J. C. League. Estimated cost, $40,000.

Wichita Falls, Tex.—Plans are being considered by the city and county authorities for the construction of a hospital. The estimated cost is $50,000.

Grants Pass, Ore.—Bids will soon be received by the Josephine County Court for the construction of a court house at Grants Pass. The estimated cost is $100,000. E. E. McClaran, Portland, is Arch.

Berkeley, Calif.—Bids will be received about Mar. 15 for the construction of a school to cost $42,000. Coxhead & Coxhead, Hearst Bldg., San Francisco, is Arch.

+Fresno, Calif.—The contract for the construction of the main building, gymnasium and boiler house at the Fresno State Normal School has been awarded to the WINGET CONSTRUCTION CO., Los Angeles, at $248,641. Noted Jan. 28 and Feb. 18.

Los Angeles, Calif.—Plans are being prepared for the construction of an intermediate school. The estimated cost is $100,000.

Redondo Beach, Calif.—(Official)—Bids will be received about Mar. 20 by Allison & Allison, Arch., Hibernian Bldg., Los Angeles, for the construction of a high school to cost about $135,000. Noted Feb. 18.

+San Francisco, Calif.—The Board of Public Works has awarded the general contract for the construction of the Polytechnic High School to P. F. REILLY CO., Weston Planing Mills, Berry near Sixth St., at $86,906. Noted Aug. 13 and Feb. 25.

San Francisco, Calif.—(Official)—All bids received for the construction of a pathological and garage building were rejected. New bids will soon be received. F. J. Churchill is Secy., Bd. of Pub. Wks. Noted Feb. 4.

The United States Purchasing Corporation, Woolworth Bldg., New York, announces that Eduardo de Abraga, who has been in this country as special delegate of the Ministry of Agriculture and the Ministry of Public Works in Brazil for more than a year, returned on Feb. 11. He will represent the company in Rio de Janeiro, and be prepared to make reports on the possibility of marketing American-made goods, especially electrical equipment.

Martin Cruikshank, Inc., 120 Liberty St., New York, N. Y., announces that Franklin H. Houge, Secretary of the company, is located in Washington and gives attention to the presentation of patent cases for the company and others in the Patent Office. A special feature of the company is the design and manufacture of automatic machinery.

SEDIMENTATION BASIN, PHILADELPHIA, PENN.

+Bids were received Feb. 9 by the city for the construction of a sedimentation basin at the Torresdale Filters from (A) Carl R. Camp, (B) T. L. Eyre, (C) Keystone State Construction Co., (D) American Paving & Construction Co., (E) SNARE & TRIEST CO. (awarded contract). The item bids were as follows:

	A	B	C	D	E
600,000 cu.yd. earth excavation	$0.22	$0.34	$0.24	$0.30	$0.29
500 cu.yd. rock excavation	8.92	5.50	4.00	15.00	3.00
30,000 tons riprap, Class A	1.15	1.00	1.10	0.75	0.80
20,000 tons riprap, Class B	1.98	2.00	1.50	3.25	1.22
750 M. ft. b.m. timber and cribbing, Class A	47.12	46.00	53.00	48.00	42.00
2500 M. ft. b.m. timber and cribbing, Class B	41.51	36.00	48.00	48.00	39.00
6000 bbl. portland cement	1.30	1.50	1.50	1.25	1.20
3500 cu.yd. concrete, Class A	9.24	5.50	11.00	22.00	9.00
500 cu.yd. concrete, Class B	10.77	8.20	11.00	22.00	12.00
100,000 lb. reinforcing rods	0.037	0.04	0.05	0.04	0.027
70,000 lb. structural steel	0.033	0.04	0.05	0.06	0.027
75,000 lb. w.-i., c.-i. and steel fixtures	0.054	0.06	0.07	0.10	0.04
Furnishing and placing solution tank and piping (lump sum)	10,222.00	10,836.00	10,000.00	12,200.00	7,400.00
500 lin.ft. 4-in. water-supply pipe	1.82	1.50	1.00	1.00	0.70
Buildings and all accessories (lump sum)	21,176.00	26,595.00	25,000.00	22,000.00	21,000.00
5000 lin.ft. yellow-pine plumb piles	0.51	0.50	0.50	0.40	0.40
2300 lin.ft. railroad track (complete)	1.34	1.73	1.00	3.00	1.00
Hoist and conveyor in place (lump sum)	969.00	2,724.00	1,100.00	600.00	1,000.00
Pitometers and recorders in place (lump sum)	2,692.00	3,720.00	2,700.00	2,500.00	2,400.00
Four 48x72-in. sluice gates and frames in place (each)	375.86	1,230.00	420.00	400.00	450.00
Extended totals	$448,836	$500,924	$481,280	$590,500	$443,440

CANAL, PAYSON, UTAH

Bids were received Feb. 3 by the U. S. Reclamation Service, Provo, Utah, for constructing Division 4 of the high line canal, Strawberry project, from (A) Reynolds-Ely Construction Co., Springville, Utah; (B) Wasatch Grading Co., Salt Lake City, Utah; (C) H. G. Gilkerson, Salt Lake City, Utah; (D) Morrison-Knudsen Co., Boise, Idaho; (E) Utah Construction Co., Ogden, Utah; (F) Mendenhall, Straw & Bird Construction Co., Springville, Utah; (G) Jacobsen-Bade Co., San Francisco, Calif.; (H) Enoch Smith, Salt Lake City, Utah; (I) Intermountain Bridge & Construction Co., Tecumseh, Neb.; (J) Bates & Rogers Construction Co., Spokane, Wash.; (K) W. O. Morrison, Denver, Colo. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K
117,400 cu.yd. excavation, Class 1	$0.22	$0.125	$0.175	$0.145	$0.1385	$0.27½	$0.21	$0.24	$0.215	$0.155	$0.16
24,100 cu.yd. excavation, Class 2	0.22	0.39	0.38	0.375	0.36	0.27½	0.35	0.24	0.215	0.35	0.38
13,000 cu.yd. excavation, Class 3	0.22	0.84	1.00	0.90	0.85	0.27½	0.75	0.75	0.85	0.90	0.98
10,000 yd. stones overhaul	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2500 cu.yd. excavation for structures Class 1	0.50	0.50	0.70	0.50	0.60	0.50	0.50	0.75	0.40	0.40	0.60
100 cu.yd. excavation for structures, Class 3	1.00	1.00	1 50	3.00	2.00	1.50	2.00	1.00	3.00	1.75	1.25
1250 cu.yd. concrete in structures	8.00	7.70	8.00	7.45	8.50	9.25	9.00	10.90	12.00	9.75	13.00
135,500 lb. placing reinforcing steel	0.005	0.015	0.015	0.034	0.01	0.005	0.02	0.005	0.015	0.01½	0.02
2200 cu.yd. backfilling	0.50	0.40	0.45	0.50	0.45	1.25	0.30	0.50	0.40	0.25	0.50
25 cu.yd. rockfill	1.35	1.25	2.00	2.00	1.50	1.50	2.00	1.00	2.00	2.00	2.50
100 sq.yd. paving	1.35	1.50	2.50	2.00	1.50	2.50	2.50	1.00	3.00	2.50	2.50
200 lin.ft. laying 6-in. vitrified pipe	0.08	0.10	0.15	0.15	0.15	0.10	0.25	0.10	0.25	0.18	0.18
100 lin.ft. laying 12-in. vitrified pipe	0.15	0.15	0.25	0.20	0.25	0.20	0.75	0.15	0.40	0.23	0.26
50 lin.ft. laying 18-in. vitrified pipe	0.25	0.25	0.35	0.30	0.35	0.40	1.25	0.20	0.60	0.35	0.48
50 lin.ft. laying 24-in. vitrified pipe	0.40	0.35	0.50	0.40	0.60	0.60	1.25	0.30	1.00	0.60	0.65
36 lin.ft. laying 36-in. c.i. pipe	1.50	0.45	1.00	1.00	1.00	0.90	2.00	2.00	5.00	1.50	5.50
462,000 sq.ft. 4-in. concrete canal lining	0.075	0.075	0.06¼	0.075	0.10	0.095	0.10	0.10	0.10	0.119	0.12
5300 sq.ft. 2½ concrete canal lining	0.07	0.07	0.06	0.065	0.10	0.085	0.09	0.10	0.10	0.119	0.09
Extended totals	$82,625	$84,365	$89,762	$89,895	$97,912	$104,214	$106,408	$108,274	$108,315	$110,207	$119,113

Contracts to Be Let

Bids received until Mar. 10, 1915.

Storm-Water Contract No. 42, Gwynn's Run Trunk Drain, Section No. 1

OFFICE OF THE SEWERAGE COMMISSION
OF THE CITY OF BALTIMORE

Baltimore, Feb. 17th, 1915.

SEALED PROPOSALS, in duplicate, indorsed "Proposal for building Gwynn's Run Trunk Drain, Section No. 1, Storm-water Contract No. 42," addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 A.M. Wednesday, March 10, 1915, for building Section No. 1 of the Gwynn's Run Trunk Drain, as shown on plans on file in the office of Mr. Calvin W. Hendrick, Chief Engineer of the Sewerage Commission.

Specifications and plans can be obtained upon application at the office of the Secretary of the Commission, 904 American Building, on and after Tuesday, February 23rd, 1915.

A charge of $5.00 will be made for each set of specifications and plans, which charge will be refunded upon the return on or before March 10th, 1915, of the unused specifications and blueprints in good condition, or upon the return of the General Specifications and plans in case a bid is submitted.

A certified check of the bidders on a clearing house bank, in the sum of $3,000.00, made payable to the order of the Mayor and City Council of Baltimore, will be required to be deposited with each bid.

Approximate Quantities.

1,200 feet 15'x12'6" drain.
150 feet 18'x12'6" drain.
665 feet excavated outlet channels.
8,300 cu.yds. of earth excavation.
700 cu.yds. of rock excavation.
4,750 cu.yds. of concrete.
310 cu.yds. of brick masonry.
250,000 pounds of reinforcing steel.

The successful bidder on this contract will be required to give bond and comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject any and all bids.

By order of the Sewerage Commission:

CHARLES ENGLAND, Chairman.

HARRY W. RODGERS, Secretary.

Approved: February 17, 1915.

JOHN HUBERT,
Acting President, Board of Awards.

Bids received until April 1, 1915.

Disposal of Garbage

Wilmington, Delaware.

Sealed proposals, accompanied by plans and specifications for the disposal of garbage of the City of Wilmington, Delaware, will be received by the Board of Health, at their office, 6th and King Sts., until 3 p.m. April First, 1915, at which time and place the proposals will be opened and publicly read.

The contract to be let, will be for a term of Nine years, beginning June First, 1915. The amount of garbage to be disposed of, approximates, 14,000 tons, yearly.

Each proposal submitted, must be accompanied by a certified check upon a Bank or Trust Company doing business in the City of Wilmington, Delaware for the sum of Five Hundred Dollars ($500), drawn to the order of the Mayor and Council of Wilmington, Delaware.

General specifications and bidding blanks may be obtained from Mr. J. Austin Ellison, Secretary of the Board of Health after March First, 1915.

The right is reserved to award the contract under that proposal, the acceptance of which will in the judgment of the Board of Health best secure the efficient performance of work and to reject any or all bids.

BOARD OF HEALTH,
J. Austin Ellison, Secretary.

Bids received until Mar. 15, 1915.

Street Paving

Steelton, Pennsylvania.

Sealed proposals will be received by the Town Council of the Borough of Steelton, Pennsylvania, at the Council Chamber until 7:30 P.M., Monday, March 15th, 1915, to be opened at a special meeting of the Town Council to be held at the said time and place for the subgrading, paving and curbing of the following streets:

South Third Street from Highland to DuPont, Highland Street from Second to Third and Conestoga Street from Front to Christian Street.

Plans, specifications, form of proposal and form of contract can be had from the Borough Secretary upon the payment of $10.00, which will be refunded upon the return of plans and specifications in good condition.

No proposal will be considered unless accompanied by a certified check made payable to LeRoy H. Sutton, Borough Treasurer, conditioned on the entering into by the successful bidder of a contract in accordance with the specifications and form provided, and furnishing a bond with at least two sureties, or some surety company acceptable to the Town Council, in the sum of approximately twenty-five per cent. (25%) of the cost of the work as set out in detail for each job in the specifications, conditioned for the faithful performance of all terms and conditions of said contract, the form of said bond to be approved by the Borough Solicitor; also maintenance bond conditioned as set forth in the contract and specifications. The amount of the certified checks shall be as follows: Highland Street, $100.00; South Third Street, $500.00; Conestoga Street, $600.00. In the event that the bid covers all of the streets to be paved the certified check shall be in the sum of $1,200.00.

The Town Council reserves the right to reject any or all bids or any part thereof.

Foreign corporations desiring to make bids should be registered in the office of the Secretary of the Commonwealth, as required by the Act of June 8th, 1911, and have a bona fide resident agent in this state with a fixed office, and as a further precaution to the Borough of Steelton, the successful bidder, if a foreign corporation, may at the option of the Town Council be required to empower some person or company satisfactory to the Town Council to accept service for said successful bidder during the term of the contract and bond.

CHAS. P. FEIDT, Borough Secretary.

Bids received until Apr. 13, 1915.

Automatic Valves and Check Valves

DEPARTMENT OF WORKS.

Toronto, Ont.

Tenders will be received by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, Canada, up to noon on Tuesday, April 13th, 1915,

For the Supply of
Automatic Valves and Check Valves.

Specifications and Tender Form for the foregoing may be obtained upon application at Room 12, Purchasing and Accounting Section, of the Department of Works, City Hall, Toronto.

Envelopes containing tenders must be plainly marked on the outside as to contents.

The usual conditions relating to tendering as prescribed by City By-law must be strictly complied with, or the tenders may be declared informal.

Tenderers shall submit with their tenders the names of two personal sureties, approved by the City Treasurer, or in lieu thereof, the bond of a guarantee company, approved as aforesaid.

The lowest or any tender not necessarily accepted.

T. L. CHURCH (Mayor),
Chairman, Board of Control.

Toronto, February 8th, 1915.